

GenCore version 5.1.8
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OM protein - protein search, using sw model

Run on: May 15, 2006, 16:53:57 ; Search time 145.923 Seconds

(without alignments)
376.380 Million cell updates/sec

Title: US-10-041-860-48

Perfect score: 672

Sequence: 1 QVLVQSGAEVKKPGASVKV.....YDYXGMDVWGQITVTVTSS 125

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : A_Geneseq_21.*

1: Geneseqp1980s.*

2: Geneseqp1990s.*

3: Geneseqp2000s.*

4: Geneseqp2001s.*

5: Geneseqp2002s.*

6: Geneseqp2003as.*

7: Geneseqp2003bs.*

8: Geneseqp2004s.*

9: Geneseqp2005s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	672	100.0	125	7	Adk18776 Anti-huma
2	672	100.0	125	7	Adk18948 Anti-huma
3	672	100.0	125	7	Adk18624 Anti-huma
4	672	100.0	125	7	Adk18813 Anti-huma
5	672	100.0	125	8	Adl25392 Human mAb
6	638	94.9	125	7	Adk18614 Anti-huma
7	638	94.9	125	7	Adk18779 Anti-huma
8	638	94.9	125	7	Adk18919 Anti-huma
9	638	94.9	125	7	Adk18816 Anti-huma
10	638	94.9	125	8	Adl25444 Human mAb
11	593.5	88.3	126	7	Adk18864 Anti-huma
12	593.5	88.3	126	7	Adk18595 Anti-huma
13	593.5	88.3	126	7	Adk18777 Anti-huma
14	593.5	88.3	126	8	Adl25408 Human mAb
15	579.5	85.2	125	7	Adk18814 Anti-huma
16	575.5	85.6	126	7	Adk18925 Anti-huma
17	575.5	85.6	126	7	Adk18780 Anti-huma
18	575.5	85.6	126	7	Adk18616 Anti-huma
19	575.5	85.6	126	7	Adk18817 Anti-huma
20	575.5	85.6	126	8	Adl25448 Human mAb
21	572	85.1	127	7	Adk18620 Anti-huma
22	572	85.1	127	7	Adk18818 Anti-huma
23	572	85.1	127	7	Adk18781 Anti-huma
24	572	85.1	127	7	Adk18936 Anti-huma

25	572	85.1	127	8	Adl25456	Human mAb
26	567.5	84.4	126	7	Adk18597	Anti-huma
27	567.5	84.4	126	7	Adk18870	Anti-huma
28	567.5	84.4	126	7	Adk18812	Anti-huma
29	567.5	84.4	126	7	Adk18775	Anti-huma
30	567.5	84.4	126	8	Adl25412	Human mAb
31	561.5	83.6	122	6	ABR55929	Heavy chain
32	561.5	83.6	126	7	Adk18778	Anti-huma
33	561.5	83.6	126	7	Adk18613	Anti-huma
34	561.5	83.6	126	7	Adk18815	Anti-huma
35	561.5	83.6	126	8	Adl25464	Human mAb
36	558.5	83.1	145	6	ABP57367	Anti-TRAI
37	556.5	82.8	124	7	ADP03955	Murine-ex
38	556.5	82.8	576	8	ADP69325	Human lun
39	554	82.4	125	8	ADP22256	Human ant
40	553.5	82.4	126	6	ADA89120	MS-Pro-26
41	553.5	82.4	126	7	ADG74371	MSPRO hea
42	553.5	82.4	126	9	ADW38826	T-cell me
43	551	82.0	127	6	ADA89122	MS-Pro-29
44	551	82.0	127	7	ADG74373	MSPRO hea
45	551	82.0	127	9	ADW38827	T-cell me

ALIGNMENTS

RESULT 1
ADK18776
ID ADK18776 standard; protein; 125 AA.
XX
AC ADK18776;
DT 06-MAY-2004 (first entry)
XX
DE Anti-human PDGF-D antibody protein related sequence #2.
XX
KW antiinflammatory; immunomodulator; cytostatic; gene therapy.
OS Homo sapiens.
XX
FN WO2003057857-A2.
XX
PD 17-JUL-2003.
XX
PF 06-JAN-2003; 2003WO-US000398.
XX
PR 07-JAN-2002; 2002US-00041860.
XX
PA (ABGE-) ABGENIX INC.
XX
PI Corvalan JRP, Jia X, Feng X, Yang X, Chen P, Gazit G, Weber R;
FI Bezabeh B;
DR WPI; 2003-587119/55.
XX
PT New human monoclonal antibody that binds to platelet-derived growth
factor-D (PDGF-D), useful for treating chronic and recurrent human
diseases, such as inflammation, autoimmunity and cancer.
XX
PS Disclosure; SEQ ID NO 200; 255pp; English.
XX
CC The invention relates to a human monoclonal antibody that binds to
platelet-derived growth factor-D (PDGF-D). The antibodies are useful for
treating chronic and recurrent human diseases, such as inflammation,
autoimmunity and cancer. The PDGF-D nucleic acids and polypeptides are
useful for modulating collagen formation, and for staging various
cancers. Antibodies to platelet-derived growth factor-D (PDGF-D) were
generated using an active protein fragment of the gene product from the
clone 30664188.0.99 arising in the conditioned medium obtained when
HEX293 cells are transfected with the plasmid pCEP4/Sec-30664188. This
sequence corresponds to a protein used in the invention.
XX
SQ Sequence 125 AA;

```
Query Match      100.0%; Score 672; DB 7; Length 125;
Best Local Similarity 100.0%; Pred. No. 3e-54;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 QVQLVQSGAEVKKPGASVKVSCKASGYFTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
DB      1 QVQLVQSGAEVKKPGASVKVSCKASGYFTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60

QY      61 AQKFGQRTVTRDTSISTAYMELSSLRSEDTAIYYCVRGFGYSYNDYYGMDYWGQGT 120
DB      61 AQKFGQRTVTRDTSISTAYMELSSLRSEDTAIYYCVRGFGYSYNDYYGMDYWGQGT 120

QY      121 VTVSS 125
DB      121 VTVSS 125

RESULT 2
ADK18948
ID  ADK18948 standard; protein; 125 AA.
XX
AC  ADK18948;
DT  06-MAY-2004 (first entry)
XX
DE  Anti-human PDGF-D antibody protein related sequence #174.
XX
KW  antiinflammatory; immunomodulator; cytostatic; gene therapy.
XX
OS  Homo sapiens.
XX
PN  WO2003057857-A2.
XX
PD  17-JUL-2003.
XX
PF  06-JAN-2003; 2003WO-US000398.
XX
PR  07-JAN-2002; 2002US-00041860.
XX
PA  (ABGE-) ABGENIX INC.
XX
PI  Corvalan JRF, Jia X, Feng X, Yang X, Chen F, Gazit G, Weber R;
PI  Bezabeh B;
XX
WPI; 2003-587119/55.
XX
New human monoclonal antibody that binds to platelet-derived growth
factor-D (PDGF-D), useful for treating chronic and recurrent human
diseases, such as inflammation, autoimmunity and cancer.
XX
PS  Disclosure; SEQ ID NO 372; 255pp; English.
XX
The invention relates to a human monoclonal antibody that binds to
platelet-derived growth factor-D (PDGF-D). The antibodies are useful for
treating chronic and recurrent human diseases, such as inflammation,
autoimmunity and cancer. The PDGF-D nucleic acids and polypeptides are
useful for modulating collagen formation, and for staging various
cancers. Antibodies to platelet-derived growth factor-D (PDGF-D) were
generated using an active protein fragment of the gene product from the
clone 30664188.0.99 arising in the conditioned medium obtained when
HEK293 cells are transfected with the plasmid pCEP4/Sec-30664188. This
sequence corresponds to a protein used in the invention.
XX
SQ  Sequence 125 AA;

Query Match      100.0%; Score 672; DB 7; Length 125;
Best Local Similarity 100.0%; Pred. No. 3e-54;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 QVQLVQSGAEVKKPGASVKVSCKASGYFTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
DB      1 QVQLVQSGAEVKKPGASVKVSCKASGYFTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60

QY      61 AQKFGQRTVTRDTSISTAYMELSSLRSEDTAIYYCVRGFGYSYNDYYGMDYWGQGT 120
DB      61 AQKFGQRTVTRDTSISTAYMELSSLRSEDTAIYYCVRGFGYSYNDYYGMDYWGQGT 120

QY      121 VTVSS 125
DB      121 VTVSS 125

RESULT 3
ADK18624
ID  ADK18624 standard; protein; 125 AA.
XX
AC  ADK18624;
DT  06-MAY-2004 (first entry)
XX
DE  Anti-human PDGF-D antibody heavy chain protein sequence.
XX
KW  antiinflammatory; immunomodulator; cytostatic; gene therapy.
XX
OS  Homo sapiens.
XX
PN  WO2003057857-A2.
XX
PD  17-JUL-2003.
XX
PF  06-JAN-2003; 2003WO-US000398.
XX
PR  07-JAN-2002; 2002US-00041860.
XX
PA  (ABGE-) ABGENIX INC.
XX
PI  Corvalan JRF, Jia X, Feng X, Yang X, Chen F, Gazit G, Weber R;
PI  Bezabeh B;
XX
WPI; 2003-587119/55.
XX
New human monoclonal antibody that binds to platelet-derived growth
factor-D (PDGF-D), useful for treating chronic and recurrent human
diseases, such as inflammation, autoimmunity and cancer.
XX
PS  Disclosure; SEQ ID NO 48; 255pp; English.
XX
The invention relates to a human monoclonal antibody that binds to
platelet-derived growth factor-D (PDGF-D). The antibodies are useful for
treating chronic and recurrent human diseases, such as inflammation,
autoimmunity and cancer. The PDGF-D nucleic acids and polypeptides are
useful for modulating collagen formation, and for staging various
cancers. Antibodies to platelet-derived growth factor-D (PDGF-D) were
generated using an active protein fragment of the gene product from the
clone 30664188.0.99 arising in the conditioned medium obtained when
HEK293 cells are transfected with the plasmid pCEP4/Sec-30664188. This
sequence corresponds to a protein used in the invention.
XX
SQ  Sequence 125 AA;

Query Match      100.0%; Score 672; DB 7; Length 125;
Best Local Similarity 100.0%; Pred. No. 3e-54;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 QVQLVQSGAEVKKPGASVKVSCKASGYFTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
DB      1 QVQLVQSGAEVKKPGASVKVSCKASGYFTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60

QY      61 AQKFGQRTVTRDTSISTAYMELSSLRSEDTAIYYCVRGFGYSYNDYYGMDYWGQGT 120
DB      61 AQKFGQRTVTRDTSISTAYMELSSLRSEDTAIYYCVRGFGYSYNDYYGMDYWGQGT 120

QY      121 VTVSS 125
DB      121 VTVSS 125
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QY      61 AQKFGQRTVTRDTSISTAYMELSSLRSEDTAIYYCVRGFGYSYNDYYGMDYWGQGT 120
DB      61 AQKFGQRTVTRDTSISTAYMELSSLRSEDTAIYYCVRGFGYSYNDYYGMDYWGQGT 120

QY      121 VTVSS 125
DB      121 VTVSS 125

RESULT 3
ADK18624
ID  ADK18624 standard; protein; 125 AA.
XX
AC  ADK18624;
DT  06-MAY-2004 (first entry)
XX
DE  Anti-human PDGF-D antibody heavy chain protein sequence.
XX
KW  antiinflammatory; immunomodulator; cytostatic; gene therapy.
XX
OS  Homo sapiens.
XX
PN  WO2003057857-A2.
XX
PD  17-JUL-2003.
XX
PF  06-JAN-2003; 2003WO-US000398.
XX
PR  07-JAN-2002; 2002US-00041860.
XX
PA  (ABGE-) ABGENIX INC.
XX
PI  Corvalan JRF, Jia X, Feng X, Yang X, Chen F, Gazit G, Weber R;
PI  Bezabeh B;
XX
WPI; 2003-587119/55.
XX
New human monoclonal antibody that binds to platelet-derived growth
factor-D (PDGF-D), useful for treating chronic and recurrent human
diseases, such as inflammation, autoimmunity and cancer.
XX
PS  Disclosure; SEQ ID NO 48; 255pp; English.
XX
The invention relates to a human monoclonal antibody that binds to
platelet-derived growth factor-D (PDGF-D). The antibodies are useful for
treating chronic and recurrent human diseases, such as inflammation,
autoimmunity and cancer. The PDGF-D nucleic acids and polypeptides are
useful for modulating collagen formation, and for staging various
cancers. Antibodies to platelet-derived growth factor-D (PDGF-D) were
generated using an active protein fragment of the gene product from the
clone 30664188.0.99 arising in the conditioned medium obtained when
HEK293 cells are transfected with the plasmid pCEP4/Sec-30664188. This
sequence corresponds to a protein used in the invention.
XX
SQ  Sequence 125 AA;

Query Match      100.0%; Score 672; DB 7; Length 125;
Best Local Similarity 100.0%; Pred. No. 3e-54;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 QVQLVQSGAEVKKPGASVKVSCKASGYFTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
DB      1 QVQLVQSGAEVKKPGASVKVSCKASGYFTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60

QY      61 AQKFGQRTVTRDTSISTAYMELSSLRSEDTAIYYCVRGFGYSYNDYYGMDYWGQGT 120
DB      61 AQKFGQRTVTRDTSISTAYMELSSLRSEDTAIYYCVRGFGYSYNDYYGMDYWGQGT 120

QY      121 VTVSS 125
DB      121 VTVSS 125
```

RESULT 4
ADK18613

ID ADK18613 standard; protein; 125 AA.

XX AC ADK18613;

XX DT 06-MAY-2004 (first entry)

XX DE Anti-human PDGF-D antibody protein related sequence #39.

XX KW antinflammatory; immunomodulator; cytostatic; gene therapy.

XX OS Homo sapiens.

XX PN WO2003057857-A2.

XX PD 17-JUL-2003.

XX PF 06-JAN-2003; 2003WO-US000398.

XX PR 07-JAN-2002; 2002US-00041860.

XX PA (ABGE-) ABGENIX INC.

XX PI Corvalan JRF, Jia X, Feng X, Yang X, Chen F, Gazit G, Weber R;
PI Bezabeh B;

XX DR WPI; 2003-587119/55.

XX PT New human monoclonal antibody that binds to platelet-derived growth
PT factor-D (PDGF-D), useful for treating chronic and recurrent human
PT diseases, such as inflammation, autoimmunity and cancer.

XX PS Disclosure; SEQ ID NO 237; 255pp; English.

XX CC The invention relates to a human monoclonal antibody that binds to
CC platelet-derived growth factor-D (PDGF-D). The antibodies are useful for
CC treating chronic and recurrent human diseases, such as inflammation,
CC autoimmunity and cancer. The PDGF-D nucleic acids and polypeptides are
CC useful for modulating collagen formation, and for staging various
CC cancers. Antibodies to platelet-derived growth factor-D (PDGF-D) were
CC generated using an active protein fragment of the gene product from the
CC clone 30664188.0.99 arising in the conditioned medium obtained when
CC HEK293 cells are transfected with the plasmid pCEP4/Sec-30664188. This
CC sequence corresponds to a protein used in the invention.

XX SQ Sequence 125 AA;

Query Match 100.0%; Score 672; DB 7; Length 125;
Best Local Similarity 100.0%; Pred. No. 3e-54;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QVQLVQSGAEVKKPKASVKVSKASGYTFTSYDINWVRQATQGLEWMGWINPNSGNTDY 60

Db 1 QVQLVQSGAEVKKPKASVKVSKASGYTFTSYDINWVRQATQGLEWMGWINPNSGNTDY 60

QY 61 AQKFGQRTVMTDTSISTAYMELSLRSEDTAIYCVRGFGSYNDYYGMDVWGQGT 120

Db 61 AQKFGQRTVMTDTSISTAYMELSLRSEDTAIYCVRGFGSYNDYYGMDVWGQGT 120

QY 121 VTVSS 125

Db 121 VTVSS 125

RESULT 5
ADL25392

ID ADL25392 standard; protein; 125 AA.

XX AC ADL25392;

XX XX

DT 17-JUN-2004 (first entry)

XX DE Human mAb 6.4 heavy chain variable region protein SEQ ID NO:2.

XX KW antibody; binding fragment; platelet derived growth factor-DD; PDGF-DD;
KW nephritis; mesangial cell proliferation inhibition;

KW mesangial proliferative glomerulonephritis; nephrotropic;

KW antinflammatory; dermatological; immunosuppressive; antidiabetic;

KW gene therapy; human; monoclonal antibody; mAb.

XX OS Homo sapiens.

XX PN WO2004024098-A2.

XX PD 25-MAR-2004.

XX PF 16-SEP-2003; 2003WO-US029414.

XX PR 16-SEP-2002; 2002US-0411137P.

XX PA (ABGE-) ABGENIX INC.

XX PA (CURA-) CURAGEN CORP.

XX PI Floege J, Gazit-Bornstein G, Keyt B, Larochelle WJ, Lichenstein H;

XX DR WPI; 2004-269881/25.

XX DR N-PSDB; ADL25391.

XX PT Use of an antibody or its binding fragment that binds platelet derived
PT growth factor-DD (PDGF-DD) for preparing a medicament for treating
PT nephritis.

XX PS Disclosure; SEQ ID NO 2; 115pp; English.

XX CC The present invention describes an antibody or its binding fragment that
CC binds platelet derived growth factor-DD (PDGF-DD), where the antibody is
CC useful in preparing a medicament for treating nephritis. Also described:
CC (1) a method of detecting nephritis; (2) a method of treating nephritis;
CC (3) a method of inhibiting mesangial cell proliferation; and (4) a method
CC of treating mesangial proliferative glomerulonephritis. The antibody has
CC nephrotropic, antiinflammatory, dermatological, immunosuppressive and
CC antidiabetic activities, and can be used in gene therapy. The antibody or
CC its binding fragment, that binds PDGF-DD, can be used in preparing a
CC medicament for treating nephritis and related disorders, e.g., mesangial
CC proliferative glomerulonephritis. The present sequence represents a human
CC monoclonal antibody (mAb) variable region sequence, which is used in the
CC exemplification of the present invention.

XX SQ Sequence 125 AA;

Query Match 100.0%; Score 672; DB 8; Length 125;
Best Local Similarity 100.0%; Pred. No. 3e-54;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QVQLVQSGAEVKKPKASVKVSKASGYTFTSYDINWVRQATQGLEWMGWINPNSGNTDY 60

Db 1 QVQLVQSGAEVKKPKASVKVSKASGYTFTSYDINWVRQATQGLEWMGWINPNSGNTDY 60

QY 61 AQKFGQRTVMTDTSISTAYMELSLRSEDTAIYCVRGFGSYNDYYGMDVWGQGT 120

Db 61 AQKFGQRTVMTDTSISTAYMELSLRSEDTAIYCVRGFGSYNDYYGMDVWGQGT 120

QY 121 VTVSS 125

Db 121 VTVSS 125

RESULT 6
ADK18614

ID ADK18614 standard; protein; 125 AA.

XX AC ADK18614;

XX XX

DT 06-MAY-2004 (first entry)
XX Anti-human PDGF-D antibody heavy chain protein sequence.
DE antiinflammatory; immunomodulator; cytostatic; gene therapy.
KW Homo sapiens.
XX WO2003057857-A2.
XX 17-JUL-2003.
XX 06-JAN-2003; 2003WO-US000398.
XX 07-JAN-2002; 2002US-00041860.
XX (ABGE-) ABGENIX INC.
XX Corvalan JRF, Jia X, Feng X, Yang X, Chen F, Gazit G, Weber R;
PI Bezabeh B;
XX WPI; 2003-587119/55.
XX New human monoclonal antibody that binds to platelet-derived growth
PT factor-D (PDGF-D), useful for treating chronic and recurrent human
PT diseases, such as inflammation, autoimmunity and cancer.
XX Disclosure; SEQ ID NO 38; 255pp; English.
XX The invention relates to a human monoclonal antibody that binds to
CC platelet-derived growth factor-D (PDGF-D). The antibodies are useful for
CC treating chronic and recurrent human diseases, such as inflammation,
CC autoimmunity and cancer. The PDGF-D nucleic acids and polypeptides are
CC useful for modulating collagen formation, and for staging various
CC cancers. Antibodies to platelet-derived growth factor-D (PDGF-D) were
CC generated using an active protein fragment of the gene product from the
CC clone 30664188.0.99 arising in the conditioned medium obtained when
CC HEK293 cells are transfected with the plasmid pCEP4/Sec-30664188. This
CC sequence corresponds to a protein used in the invention.
XX Sequence 125 AA;
SQ
Query Match 94.9%; Score 638; DB 7; Length 125;
Best Local Similarity 94.4%; Pred. No. 4.2e-51;
Matches 118; Conservative 3; Mismatches 4; Indels 0; Gaps 0;
QY 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
DB 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTGY 60
QY 61 AQKFGQRTVMTDTSISTAYMELSLRSEDTAIYYCVKFGYSYNDIYYGMDVWGQGT 120
DB 61 AQKFGQRTVMTNTSISTAYMELSLRSEDTAIYYCARGSGYSYGYDYYGMDVWGQGT 120
QY 121 VTSS 125
DB 121 VTSS 125
RESULT 7
ADK18779
ID ADK18779 standard; protein; 125 AA.
XX ADK18779;
XX 06-MAY-2004 (first entry)
XX Anti-human PDGF-D antibody protein related sequence #5.
XX antiinflammatory; immunomodulator; cytostatic; gene therapy.
XX Homo sapiens.
XX

PN WO2003057857-A2.
XX 17-JUL-2003.
XX 06-JAN-2003; 2003WO-US000398.
XX 07-JAN-2002; 2002US-00041860.
XX (ABGE-) ABGENIX INC.
XX Corvalan JRF, Jia X, Feng X, Yang X, Chen F, Gazit G, Weber R;
PI Bezabeh B;
XX WPI; 2003-587119/55.
XX New human monoclonal antibody that binds to platelet-derived growth
PT factor-D (PDGF-D), useful for treating chronic and recurrent human
PT diseases, such as inflammation, autoimmunity and cancer.
XX Disclosure; SEQ ID NO 203; 255pp; English.
XX The invention relates to a human monoclonal antibody that binds to
CC platelet-derived growth factor-D (PDGF-D). The antibodies are useful for
CC treating chronic and recurrent human diseases, such as inflammation,
CC autoimmunity and cancer. The PDGF-D nucleic acids and polypeptides are
CC useful for modulating collagen formation, and for staging various
CC cancers. Antibodies to platelet-derived growth factor-D (PDGF-D) were
CC generated using an active protein fragment of the gene product from the
CC clone 30664188.0.99 arising in the conditioned medium obtained when
CC HEK293 cells are transfected with the plasmid pCEP4/Sec-30664188. This
CC sequence corresponds to a protein used in the invention.
XX Sequence 125 AA;
SQ
Query Match 94.9%; Score 638; DB 7; Length 125;
Best Local Similarity 94.4%; Pred. No. 4.2e-51;
Matches 118; Conservative 3; Mismatches 4; Indels 0; Gaps 0;
QY 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
DB 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTGY 60
QY 61 AQKFGQRTVMTDTSISTAYMELSLRSEDTAIYYCVKFGYSYNDIYYGMDVWGQGT 120
DB 61 AQKFGQRTVMTNTSISTAYMELSLRSEDTAIYYCARGSGYSYGYDYYGMDVWGQGT 120
QY 121 VTSS 125
DB 121 VTSS 125
RESULT 8
ADK18919
ID ADK18919 standard; protein; 125 AA.
XX ADK18919;
XX 06-MAY-2004 (first entry)
XX Anti-human PDGF-D antibody protein related sequence #145.
XX antiinflammatory; immunomodulator; cytostatic; gene therapy.
XX Homo sapiens.
XX WO2003057857-A2.
XX 17-JUL-2003.
XX 06-JAN-2003; 2003WO-US000398.
XX 07-JAN-2002; 2002US-00041860.
XX

PA (ABGE-) ABGENIX INC.
 XX Corvalan JRF, Jia X, Feng X, Yang X, Chen F, Gazit G, Weber R;
 PI Bezabeh B;
 XX WPI; 2003-587119/55.
 XX New human monoclonal antibody that binds to platelet-derived growth
 PT factor-D (PDGF-D), useful for treating chronic and recurrent human
 PT diseases, such as inflammation, autoimmunity and cancer.
 XX Disclosure; SEQ ID NO 343; 255pp; English.
 XX The invention relates to a human monoclonal antibody that binds to
 CC platelet-derived growth factor-D (PDGF-D). The antibodies are useful for
 CC treating chronic and recurrent human diseases, such as inflammation,
 CC autoimmunity and cancer. The PDGF-D nucleic acids and polypeptides are
 CC useful for modulating collagen formation, and for staging various
 CC cancers. Antibodies to platelet-derived growth factor-D (PDGF-D) were
 CC generated using an active protein fragment of the gene product from the
 CC clone 30664188.0.99 arising in the conditioned medium obtained when
 CC HEK293 cells are transfected with the plasmid pCEP4/Sec-30664188. This
 CC sequence corresponds to a protein used in the invention.
 XX Sequence 125 AA;
 SQ

Query Match 94.9%; Score 638; DB 7; Length 125;
 Best Local Similarity 94.4%; Pred. No. 4.2e-51;
 Matches 118; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATCGGLEWGMWNPNSGNTDY 60
 DB 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATCGGLEWGMWNPNSGNTGY 60

QY 61 AQKQGRVTMTSDTSISTAYMELSLRSEDTAIYCVRGFGYSYNDYYGMDVWGQGT 120
 DB 61 AQKQGRVTMTNTSISTAYMELSLRSEDTAIYCVRGFGYSYNDYYGMDVWGQGT 120

QY 121 VTVSS 125
 DB 121 VTVSS 125

RESULT 9
 ADK18816
 ID ADK18816 standard; protein; 125 AA.
 XX
 AC ADK18816;
 XX
 DT 06-MAY-2004 (first entry)
 XX
 DE Anti-human PDGF-D antibody protein related sequence #42.
 XX
 KW antiinflammatory; immunomodulator; cytostatic; gene therapy.
 XX
 OS Homo sapiens.
 XX
 PN WO2003057857-A2.
 XX
 PD 17-JUL-2003.
 XX
 PF 06-JAN-2003; 2003WO-US000398.
 XX
 PR 07-JAN-2002; 2002US-00041860.
 XX
 XX (ABGE-) ABGENIX INC.
 XX Corvalan JRF, Jia X, Feng X, Yang X, Chen F, Gazit G, Weber R;
 PI Bezabeh B;
 XX WPI; 2003-587119/55.
 XX New human monoclonal antibody that binds to platelet-derived growth

PT factor-D (PDGF-D), useful for treating chronic and recurrent human
 PT diseases, such as inflammation, autoimmunity and cancer.
 XX Disclosure; SEQ ID NO 240; 255pp; English.
 XX The invention relates to a human monoclonal antibody that binds to
 CC platelet-derived growth factor-D (PDGF-D). The antibodies are useful for
 CC treating chronic and recurrent human diseases, such as inflammation,
 CC autoimmunity and cancer. The PDGF-D nucleic acids and polypeptides are
 CC useful for modulating collagen formation, and for staging various
 CC cancers. Antibodies to platelet-derived growth factor-D (PDGF-D) were
 CC generated using an active protein fragment of the gene product from the
 CC clone 30664188.0.99 arising in the conditioned medium obtained when
 CC HEK293 cells are transfected with the plasmid pCEP4/Sec-30664188. This
 CC sequence corresponds to a protein used in the invention.
 XX Sequence 125 AA;
 SQ

Query Match 94.9%; Score 638; DB 7; Length 125;
 Best Local Similarity 94.4%; Pred. No. 4.2e-51;
 Matches 118; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATCGGLEWGMWNPNSGNTDY 60
 DB 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATCGGLEWGMWNPNSGNTGY 60

QY 61 AQKQGRVTMTSDTSISTAYMELSLRSEDTAIYCVRGFGYSYNDYYGMDVWGQGT 120
 DB 61 AQKQGRVTMTNTSISTAYMELSLRSEDTAIYCVRGFGYSYNDYYGMDVWGQGT 120

QY 121 VTVSS 125
 DB 121 VTVSS 125

RESULT 10
 ADL25444
 ID ADL25444 standard; protein; 125 AA.
 XX
 AC ADL25444;
 XX
 DT 17-JUN-2004 (first entry)
 XX
 DE Human mAb 1.45 heavy chain variable region protein SEQ ID NO:54.
 XX
 KW antibody; binding fragment; platelet derived growth factor-DD; PDGF-DD;
 KW nephritis; mesangial cell proliferation inhibition;
 KW mesangial proliferative glomerulonephritis; nephrotropic;
 KW antiinflammatory; dermatological; immunosuppressive; antidiabetic;
 KW gene therapy; human; monoclonal antibody; mAb.
 XX
 OS Homo sapiens.
 XX
 PN WO2004024098-A2.
 XX
 PD 25-MAR-2004.
 XX
 PF 16-SEP-2003; 2003WO-US029414.
 XX
 PR 16-SEP-2002; 2002US-0411137P.
 XX
 XX (ABGE-) ABGENIX INC.
 PA (CURA-) CURAGEN CORP.
 XX Floege J, Gazit-Bornstein G, Keyt B, Larochelle WJ, Lichenstein H;
 XX WPI; 2004-269881/25.
 DR N-PSDB; ADL25443.
 XX
 PT Use of an antibody or its binding fragment that binds platelet derived
 PT growth factor-DD (PDGF-DD) for preparing a medicament for treating
 PT nephritis.
 XX

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PS Disclosure; SEQ ID NO 54; 115pp; English.
XX
CC The present invention describes an antibody or its binding fragment that
CC binds platelet derived growth factor-DD (PDGF-DD), where the antibody is
CC useful in preparing a medicament for treating nephritis. Also described:
CC (1) a method of detecting nephritis; (2) a method of treating nephritis;
CC (3) a method of inhibiting mesangial cell proliferation; and (4) a method
CC of treating mesangial proliferative glomerulonephritis. The antibody has
CC nephrotropic, antiinflammatory, dermatological, immunosuppressive and
CC antidiabetic activities, and can be used in gene therapy. The antibody or
CC its binding fragment, that binds PDGF-DD, can be used in preparing a
CC medicament for treating nephritis and related disorders, e.g., mesangial
CC proliferative glomerulonephritis. The present sequence represents a human
CC monoclonal antibody (mAb) variable region sequence, which is used in the
CC exemplification of the present invention.
XX
SQ Sequence 125 AA;

  Query Match      94.9%; Score 638; DB 8; Length 125;
  Best Local Similarity 94.4%; Pred. No. 4.2e-51;
  Matches 118; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 1 QVQLVQSGAEVKKPGASVKVCKASGYTFTSYDINWVRQATCGQGLEWGMWNPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPGASVKVCKASGYTFTSYDINWVRQATCGQGLEWGMWNPNSGNTGY 60

Qy 61 AQKFGQGRVTMTDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNYDYIYGMVWGQGT 120
Db 61 AQKFGQGRVTMTDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNYDYIYGMVWGQGT 120

Qy 121 VTVSS 125
Db 121 VTVSS 125

RESULT 11
ADK18864
ID ADK18864 standard; protein; 126 AA.
AC ADK18864;
XX
XX 06-MAY-2004 (first entry)
XX
XX Anti-human PDGF-D antibody protein related sequence #90.
XX
XX antiinflammatory; immunomodulator; cytostatic; gene therapy.
XX
XX Homo sapiens.
XX
XX WO2003057857-A2.
XX
XX 17-JUL-2003.
XX
XX 06-JAN-2003; 2003WO-US000398.
XX
XX 07-JAN-2002; 2002US-00041860.
XX
XX (ABGE-) ABGENIX INC.
XX
XX Corvalan JRF, Jia X, Feng X, Yang X, Chen F, Gazit G, Weber R;
XX Bezabeh B;
XX
XX WPI; 2003-587119/55.
XX
XX New human monoclonal antibody that binds to platelet-derived growth
XX factor-D (PDGF-D), useful for treating chronic and recurrent human
XX diseases, such as inflammation, autoimmunity and cancer.
XX
XX Disclosure; SEQ ID NO 288; 255pp; English.
XX
XX The invention relates to a human monoclonal antibody that binds to
XX platelet-derived growth factor-D (PDGF-D). The antibodies are useful for
XX treating chronic and recurrent human diseases, such as inflammation,
XX autoimmunity and cancer.
XX
XX The invention relates to a human monoclonal antibody that binds to
XX platelet-derived growth factor-DD (PDGF-DD), where the antibody is
XX useful in preparing a medicament for treating nephritis. Also described:
XX (1) a method of detecting nephritis; (2) a method of treating nephritis;
XX (3) a method of inhibiting mesangial cell proliferation; and (4) a method
XX of treating mesangial proliferative glomerulonephritis. The antibody has
XX nephrotropic, antiinflammatory, dermatological, immunosuppressive and
XX antidiabetic activities, and can be used in gene therapy. The antibody or
XX its binding fragment, that binds PDGF-DD, can be used in preparing a
XX medicament for treating nephritis and related disorders, e.g., mesangial
XX proliferative glomerulonephritis. The present sequence represents a human
XX monoclonal antibody (mAb) variable region sequence, which is used in the
XX exemplification of the present invention.
XX
SQ Sequence 126 AA;

  Query Match      88.3%; Score 593.5; DB 7; Length 126;
  Best Local Similarity 89.7%; Pred. No. 5.4e-47;
  Matches 113; Conservative 4; Mismatches 8; Indels 1; Gaps 1;

Qy 1 QVQLVQSGAEVKKPGASVKVCKASGYTFTSYDINWVRQATCGQGLEWGMWNPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPGASVKVCKASGYTFTSYDINWVRQATCGQGLEWGMWNPNSGNTGY 60

Qy 61 AQKFGQGRVTMTDTSISTAYMELSLRSEDTAIYYCVR-GFGYSYNYDYIYGMVWGQGT 119
Db 61 AQKFGQGRVTMTDTSISTAYMELSLRSEDTAIYYCAREGIAVAGTYYYYYGMVWGQGT 120

Qy 120 TVTVSS 125
Db 121 TVTVSS 126

RESULT 12
ADK18595
ID ADK18595 standard; protein; 126 AA.
AC ADK18595;
XX
XX 06-MAY-2004 (first entry)
XX
XX Anti-human PDGF-D antibody heavy chain protein sequence.
XX
XX antiinflammatory; immunomodulator; cytostatic; gene therapy.
XX
XX Homo sapiens.
XX
XX WO2003057857-A2.
XX
XX 17-JUL-2003.
XX
XX 06-JAN-2003; 2003WO-US000398.
XX
XX 07-JAN-2002; 2002US-00041860.
XX
XX (ABGE-) ABGENIX INC.
XX
XX Corvalan JRF, Jia X, Feng X, Yang X, Chen F, Gazit G, Weber R;
XX Bezabeh B;
XX
XX WPI; 2003-587119/55.
XX
XX New human monoclonal antibody that binds to platelet-derived growth
XX factor-D (PDGF-D), useful for treating chronic and recurrent human
XX diseases, such as inflammation, autoimmunity and cancer.
XX
XX Disclosure; SEQ ID NO 19; 255pp; English.
XX
XX The invention relates to a human monoclonal antibody that binds to
XX platelet-derived growth factor-D (PDGF-D). The antibodies are useful for
XX treating chronic and recurrent human diseases, such as inflammation,
XX autoimmunity and cancer. The PDGF-D nucleic acids and polypeptides are
XX useful for modulating collagen formation, and for staging various
XX cancers. Antibodies to platelet-derived growth factor-D (PDGF-D) were
XX generated using an active protein fragment of the gene product from the
XX clone 30664188.0.99 arising in the conditioned medium obtained when
XX HEK293 cells are transfected with the plasmid pCEP4/Sec-30664188. This
XX sequence corresponds to a protein used in the invention.
XX
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SQ      Sequence 126 AA;
Query Match      88.3%; Score 593.5; DB 7; Length 126;
Best Local Similarity 89.7%; Pred. No. 5.4e-47;
Matches 113; Conservative 4; Mismatches 8; Indels 1; Gaps 1;

QY      1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATGQGLEWMGWNPNPNSGNTGY 60
DQ      61 AQKQGRVTMTSDTSISTAYMELSLRSEDTAIYVCVR-GFGYSYNYDYTYGMDVWGQGT 119
DB      61 AQKQGRVTMTSDTSISTAYMELSLRSEDTAIYVCVRGREGIAVAGTYYYYYGMVWGQGT 120

QY      120 TVTVSS 125
DB      121 TVTVSS 126

RESULT 13
ADK18777
ID      ADK18777 standard; protein; 126 AA.
XX
AC      ADK18777;
XX
DT      06-MAY-2004 (first entry)
XX
DE      Anti-human PDGF-D antibody protein related sequence #3.
XX
KW      antiinflammatory; immunomodulator; cytostatic; gene therapy.
XX
OS      Homo sapiens.
XX
PN      WO2003057857-A2.
XX
PD      17-JUL-2003.
XX
PF      06-JAN-2003; 2003WO-US000398.
XX
PR      07-JAN-2002; 2002US-00041860.
XX
PA      (ABGE-) ABGENIX INC.
XX
PI      Corvalan JRF, Jia X, Peng X, Yang X, Chen F, Gazit G, Weber R;
PI      Bezabeh B;
XX
DR      WPI; 2003-587119/55.
XX
PT      New human monoclonal antibody that binds to platelet-derived growth
PT      factor-D (PDGF-D), useful for treating chronic and recurrent human
PT      diseases, such as inflammation, autoimmunity and cancer.
XX
PS      Disclosure; SEQ ID NO 201; 255pp; English.
XX
CC      The invention relates to a human monoclonal antibody that binds to
CC      platelet-derived growth factor-D (PDGF-D). The antibodies are useful for
CC      treating chronic and recurrent human diseases, such as inflammation,
CC      autoimmunity and cancer. The PDGF-D nucleic acids and polypeptides are
CC      useful for modulating collagen formation, and for staging various
CC      cancers. Antibodies to platelet-derived growth factor-D (PDGF-D) were
CC      generated using an active protein fragment of the gene product from the
CC      clone 30664188.0.99 arising in the conditioned medium obtained when
CC      HEK293 cells are transfected with the plasmid pCEP4/Sec-30664188. This
CC      sequence corresponds to a protein used in the invention.
XX
SQ      Sequence 126 AA;
Query Match      88.3%; Score 593.5; DB 7; Length 126;
Best Local Similarity 89.7%; Pred. No. 5.4e-47;
Matches 113; Conservative 4; Mismatches 8; Indels 1; Gaps 1;

QY      1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATGQGLEWMGWNPNPNSGNTGY 60
DQ      61 AQKQGRVTMTSDTSISTAYMELSLRSEDTAIYVCVR-GFGYSYNYDYTYGMDVWGQGT 119
DB      61 AQKQGRVTMTSDTSISTAYMELSLRSEDTAIYVCVRGREGIAVAGTYYYYYGMVWGQGT 120

QY      120 TVTVSS 125
DB      121 TVTVSS 126

RESULT 14
ADL25408
ID      ADL25408 standard; protein; 126 AA.
XX
AC      ADL25408;
XX
DT      17-JUN-2004 (first entry)
XX
DE      Human mAb 1.18 heavy chain variable region protein SEQ ID NO:18.
XX
KW      antibody; binding fragment; platelet derived growth factor-DD; PDGF-DD;
KW      nephritis; mesangial cell proliferation inhibition;
KW      mesangial proliferative glomerulonephritis; nephrotropic;
KW      antiinflammatory; dermatological; immunosuppressive; antidiabetic;
KW      gene therapy; human; monoclonal antibody; mAb.
XX
OS      Homo sapiens.
XX
PN      WO2004024098-A2.
XX
PD      25-MAR-2004.
XX
PF      16-SEP-2003; 2003WO-US029414.
XX
PR      16-SEP-2002; 2002US-0411137P.
XX
PA      (ABGE-) ABGENIX INC.
PA      (CURA-) CURAGEN CORP.
XX
PI      Floege J, Gazit-Bornstein G, Keyt B, Larochele WJ, Lichenstein H;
PI      WPI; 2004-269881/25.
DR      N-PSDB; ADL25407.
XX
PT      Use of an antibody or its binding fragment that binds platelet derived
PT      growth factor-DD (PDGF-DD) for preparing a medicament for treating
PT      nephritis.
XX
PS      Disclosure; SEQ ID NO 18; 115pp; English.
XX
CC      The present invention describes an antibody or its binding fragment that
CC      binds platelet derived growth factor-DD (PDGF-DD), where the antibody is
CC      useful in preparing a medicament for treating nephritis. Also described:
CC      (1) a method of inhibiting nephritis; (2) a method of treating nephritis;
CC      (3) a method of inhibiting mesangial cell proliferation; and (4) a method
CC      of treating mesangial proliferative glomerulonephritis. The antibody has
CC      nephrotropic, antiinflammatory, dermatological, immunosuppressive and
CC      antidiabetic activities, and can be used in gene therapy. The antibody or
CC      its binding fragment, that binds PDGF-DD, can be used in preparing a
CC      medicament for treating nephritis and related disorders, e.g., mesangial
CC      proliferative glomerulonephritis. The present sequence represents a human
CC      monoclonal antibody (mAb) variable region sequence, which is used in the
CC      exemplification of the present invention.
XX
SQ      Sequence 126 AA;
Query Match      88.3%; Score 593.5; DB 8; Length 126;
Best Local Similarity 89.7%; Pred. No. 5.4e-47;
Matches 113; Conservative 4; Mismatches 8; Indels 1; Gaps 1;

QY      1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATGQGLEWMGWNPNPNSGNTGY 60
DQ      61 AQKQGRVTMTSDTSISTAYMELSLRSEDTAIYVCVR-GFGYSYNYDYTYGMDVWGQGT 119
DB      61 AQKQGRVTMTSDTSISTAYMELSLRSEDTAIYVCVRGREGIAVAGTYYYYYGMVWGQGT 120
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Db 1 QVLVQSGAEVKKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWMGNPNPNSGNTGY 60
QY 61 AQKFGQRTVTRDTSISITAYMELSLRSEDIAIYYCVR-GFGYSYNYDYIYGMVWGQGT 119
Db 61 AQKFGQRTVTRDTSISITAYMELSLRSEDIAIYYCVR-GFGYSYNYDYIYGMVWGQGT 120
QY 120 TTVTVSS 125
Db 121 TTVTVSS 126

RESULT 15

ADK18814
ID ADK18814 standard; protein; 125 AA.

XX AC ADK18814;

XX 06-MAY-2004 (first entry)

XX DE Anti-human PDGF-D antibody protein related sequence #40.

XX KW antiinflammatory; immunomodulator; cytostatic; gene therapy.

XX OS Homo sapiens.

XX PN WO2003057857-A2.

XX XX 17-JUL-2003.

XX PF 06-JAN-2003; 2003WO-US000398.

XX PR 07-JAN-2002; 2002US-00041860.

XX PA (ABGE-) AGENIX INC.

XX PI Corvalan JRF, Jia X, Feng X, Yang X, Chen F, Gazit G, Weber R;
XX PI Bezabeh B;

XX DR WPI; 2003-587119/55.

XX PT New human monoclonal antibody that binds to platelet-derived growth
XX PT factor-D (PDGF-D), useful for treating chronic and recurrent human
XX PT diseases, such as inflammation, autoimmunity and cancer.

XX PS Disclosure; SEQ ID NO 238; 255pp; English.

XX CC The invention relates to a human monoclonal antibody that binds to
XX CC platelet-derived growth factor-D (PDGF-D). The antibodies are useful for
XX CC treating chronic and recurrent human diseases, such as inflammation,
XX CC autoimmunity and cancer. The PDGF-D nucleic acids and polypeptides are
XX CC useful for modulating collagen formation, and for staging various
XX CC cancers. Antibodies to platelet-derived growth factor-D (PDGF-D) were
XX CC generated using an active protein fragment of the gene product from the
XX CC clone 30664188.0.99 arising in the conditioned medium obtained when
XX CC HEK293 cells are transfected with the plasmid pCEP4/Sec-30664188. This
XX CC sequence corresponds to a protein used in the invention.

SQ Sequence 125 AA;

Query Match 86.2%; Score 579.5; DB 7; Length 125;
Best Local Similarity 89.4%; Pred. No. 1.1e-45;
Matches 110; Conservative 4; Mismatches 8; Indels 1; Gaps 1;

QY 4 LVQSGAEVKKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWMGNPNPNSGNTDYAOK 63
Db 3 LVQSGAEVKKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWMGNPNPNSGNTGYAOK 62

QY 64 FGQRTVTRDTSISITAYMELSLRSEDIAIYYCVR-GFGYSYNYDYIYGMVWGQGTVT 122

Db 63 FGQRTVTRDTSISITAYMELSLRSEDIAIYYCVR-GFGYSYNYDYIYGMVWGQGTVT 122

QY 123 VSS 125
|||

Db 123 VSS 125

Search completed: May 15, 2006, 16:58:54
Job time : 146.923 secs

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OM protein - protein search, using sw model

Run on: May 15, 2006, 17:04:12 ; Search time 35.4077 Seconds
(without alignments)
291.870 Million cell updates/sec

Title: US-10-041-860-48
Perfect score: 672
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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1: /cgn2_6/prodata/1/1aa/5 COMB.pep.*
2: /cgn2_6/prodata/1/1aa/6 COMB.pep.*
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4: /cgn2_6/prodata/1/1aa/PCITUS COMB.pep.*
5: /cgn2_6/prodata/1/1aa/RE COMB.pep.*
6: /cgn2_6/prodata/1/1aa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	541.5	80.6	120	2	US-09-025-769B-36
2	541.5	80.6	120	2	US-09-025-769B-59
3	541.5	80.6	120	2	US-09-490-070A-36
4	541.5	80.6	120	2	US-09-490-070A-59
5	541.5	80.6	120	2	US-09-490-153-36
6	541.5	80.6	120	2	US-09-490-153-59
7	541.5	80.6	120	2	US-09-490-324-36
8	541.5	80.6	120	2	US-09-490-324-59
9	528	78.6	117	2	US-09-025-769B-22
10	528	78.6	117	2	US-09-490-070A-22
11	528	78.6	117	2	US-09-490-153-22
12	528	78.6	117	2	US-09-490-324-22
13	526	78.3	470	2	US-09-859-053-28
14	513	76.3	125	2	US-09-199-149-3
15	510.5	76.0	128	1	US-08-202-047-22
16	510.5	76.0	128	2	US-08-964-690-22
17	510	75.9	129	1	US-08-561-521-45
18	510	75.9	129	2	US-08-525-539A-77
19	510	75.9	129	4	PCT-US95-01219-45
20	504	75.0	123	2	US-10-330-613A-21
21	502	74.7	123	1	US-08-477-877B-94
22	502	74.7	123	1	US-08-472-281A-94
23	502	74.7	123	1	US-08-477-989B-94
24	502	74.7	123	2	US-09-462-140D-102
25	502	74.7	123	2	US-09-462-140D-105
26	501	74.6	119	1	US-08-561-521-10
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28	498	74.1	119	2	US-09-438-954-41	Sequence 41, Appl
29	496	73.8	117	2	US-08-545-809A-96	Sequence 96, Appl
30	496	73.8	117	2	US-09-515-697-96	Sequence 96, Appl
31	493.5	73.4	139	1	US-08-253-877C-19	Sequence 19, Appl
32	493.5	73.4	139	1	US-08-452-164A-19	Sequence 19, Appl
33	493.5	73.4	139	2	US-08-603-024-18	Sequence 18, Appl
34	493.5	73.4	139	2	US-08-450-809-14	Sequence 14, Appl
35	487	72.5	96	2	US-10-194-975-3	Sequence 3, Appl
36	487	72.5	121	1	US-08-202-047-23	Sequence 23, Appl
37	487	72.5	121	2	US-08-964-690-23	Sequence 23, Appl
38	482	71.7	119	1	US-08-561-521-12	Sequence 12, Appl
39	482	71.7	119	4	PCT-US95-01219-12	Sequence 12, Appl
40	481	71.6	123	1	US-08-482-882-86	Sequence 86, Appl
41	481	71.6	123	1	US-08-483-389-86	Sequence 86, Appl
42	481	71.6	123	1	US-08-487-113D-86	Sequence 86, Appl
43	481	71.6	123	1	US-08-473-503-86	Sequence 86, Appl
44	481	71.6	123	1	US-08-483-932-86	Sequence 86, Appl
45	481	71.6	123	1	US-08-720-420A-86	Sequence 86, Appl

ALIGNMENTS

RESULT 1
US-09-025-769B-36
; Sequence 36, Application US/09025769B
; Patent No. 6300064
; GENERAL INFORMATION:
; APPLICANT: Knappik, Achim
; APPLICANT: Pack, Peter
; APPLICANT: Ilag, Vic
; APPLICANT: Ge, Liming
; APPLICANT: Moroney, Simon
; APPLICANT: Plueckthun, Andreas
; TITLE OF INVENTION: Protein/(Poly)peptide libraries
; NUMBER OF SEQUENCES: 373
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James F. Haley, Jr., Esq. c/o Fish & Neave
; STREET: 1251 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10021
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/025,769B
; FILING DATE: 18-FEB-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95 11 3021.0
; FILING DATE: 18-AUG-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: James F. Haley, Jr., Esq.
; REGISTRATION NUMBER: 27,794
; REFERENCE/DOCKET NUMBER: MORPHO/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)596-9000
; TELEFAX: (212)596-9090
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 120 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-025-769B-36

Query Match 80.6%; Score 541.5; DB 2; Length 120;
Best Local Similarity 84.0%; Pred. NO. 1.7e-44;
Matches 105; Conservative 5; Mismatches 10; Indels 5; Gaps 1;

QY 1 QVQLVQSGAEVKKPKGASVKVCKASGYTFTSYDINWVRQATCGQGLEWGWINPNSGNTDY 60
Db |||||
1 QVQLVQSGAEVKKPKGASVKVCKASGYTFTSYTHWVRQAPQGQGLEWGWINPNSGGTNY 60
QY 61 AQKFGQRTVMTDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGYGMDVWGQGT 120
Db |||||
61 AQKFGQRTVMTDTSISTAYMELSLRSEDTAIYYCARWGG-----DGFYANDYWGQGT 115
QY 121 VTVSS 125
Db |||||
116 VTVSS 120

RESULT 2

US-09-025-769B-59
; Sequence 59, Application US/09025769B
; Patent No. 6300064
; GENERAL INFORMATION:
; APPLICANT: Knappik, Achim
; APPLICANT: Pack, Peter
; APPLICANT: Ilag, Vic
; APPLICANT: Ge, Liming
; APPLICANT: Moroney, Simon
; APPLICANT: Plueckthun, Andreas
; TITLE OF INVENTION: Protein/(Poly)peptide libraries
; NUMBER OF SEQUENCES: 373
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James P. Haley, Jr., Esq. c/o Fish & Neave
; STREET: 1251 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10021

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/025,769B
FILING DATE: 18-FEB-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95 11 3021.0
FILING DATE: 18-AUG-1995
ATTORNEY/AGENT INFORMATION:
NAME: James P. Haley, Jr., Esq.
REGISTRATION NUMBER: 27,794
REFERENCE/DOCKET NUMBER: MORPHO/5
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)596-9000
TELEFAX: (212)596-9090
INFORMATION FOR SEQ ID NO: 59:
SEQUENCE CHARACTERISTICS:
LENGTH: 120 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-025-769B-59

Query Match 80.6%; Score 541.5; DB 2; Length 120;
Best Local Similarity 84.0%; Pred. No. 1.7e-44;
Matches 105; Conservative 5; Mismatches 10; Indels 5; Gaps 1;

QY 1 QVQLVQSGAEVKKPKGASVKVCKASGYTFTSYDINWVRQATCGQGLEWGWINPNSGNTDY 60
Db |||||
1 QVQLVQSGAEVKKPKGASVKVCKASGYTFTSYTHWVRQAPQGQGLEWGWINPNSGGTNY 60
QY 61 AQKFGQRTVMTDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGYGMDVWGQGT 120
Db |||||
61 AQKFGQRTVMTDTSISTAYMELSLRSEDTAIYYCARWGG-----DGFYANDYWGQGT 115
QY 121 VTVSS 125

Db |||||
116 VTVSS 120
RESULT 3
US-09-490-070A-36
; Sequence 36, Application US/09490070A
; Patent No. 6696248
; GENERAL INFORMATION:
; APPLICANT: Knappik, Achim
; APPLICANT: Pack, Peter
; APPLICANT: Ilag, Vic
; APPLICANT: Ge, Liming
; APPLICANT: Moroney, Simon
; APPLICANT: Plueckthun, Andreas
; TITLE OF INVENTION: Protein/(Poly)peptide libraries
; NUMBER OF SEQUENCES: 373
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Colin G. Sandercock, Esq. c/o Heller Ehrman
; STREET: 1666 K Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/490,070A
FILING DATE: 24-Jan-2000
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95 11 3021.0
FILING DATE: 18-AUG-1995
ATTORNEY/AGENT INFORMATION:
NAME: Colin G. Sandercock, Esq.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37629-0005
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 912-2000
TELEFAX: (202) 912-2020
INFORMATION FOR SEQ ID NO: 36:
SEQUENCE CHARACTERISTICS:
LENGTH: 120 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 36:
US-09-490-070A-36

Query Match 80.6%; Score 541.5; DB 2; Length 120;
Best Local Similarity 84.0%; Pred. No. 1.7e-44;
Matches 105; Conservative 5; Mismatches 10; Indels 5; Gaps 1;

QY 1 QVQLVQSGAEVKKPKGASVKVCKASGYTFTSYDINWVRQATCGQGLEWGWINPNSGNTDY 60
Db |||||
1 QVQLVQSGAEVKKPKGASVKVCKASGYTFTSYTHWVRQAPQGQGLEWGWINPNSGGTNY 60
QY 61 AQKFGQRTVMTDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGYGMDVWGQGT 120
Db |||||
61 AQKFGQRTVMTDTSISTAYMELSLRSEDTAIYYCARWGG-----DGFYANDYWGQGT 115
QY 121 VTVSS 125
Db |||||
116 VTVSS 120

RESULT 4

US-09-490-070A-59
; Sequence 59, Application US/09490070A


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; STATE: New York
; COUNTRY: USA
; ZIP: 10021
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/490,153
; FILING DATE: 24-Jan-2000
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/025,769B
; FILING DATE: 18-FEB-1998
; APPLICATION NUMBER: EP 95 11 3021.0
; FILING DATE: 18-AUG-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: James F. Haley, Jr., Esq.
; REGISTRATION NUMBER: 27,794
; REFERENCE/DOCKET NUMBER: MORPHO/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)596-9000
; TELEFAX: (212)596-9090
; INFORMATION FOR SEQ ID NO: 59:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 120 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 59:
US-09-490-153-59

Query Match      80.6%; Score 541.5; DB 2; Length 120;
Best Local Similarity 84.0%; Pred. No. 1.7e-44;
Matches 105; Conservative 5; Mismatches 10; Indels 5; Gaps 1;

QY 1 QVQLVQSGAEVKKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
QY 61 AQKFGQRTVTRDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGMDVWGQGT 120
Db 61 AQKFGQRTVTRDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGMDVWGQGT 120
QY 121 VTSS 125
Db 116 VTSS 120

RESULT 7
US-09-490-324-36
; Sequence 36, Application US/09490324
; Patent No. 6828422
; GENERAL INFORMATION:
; APPLICANT: Knappik, Achim
; Pack, Peter
; Ilag, Vic
; Ge, Liming
; Moroney, Simon
; Plueckthun, Andreas
; TITLE OF INVENTION: Protein/(Poly)peptide libraries
; NUMBER OF SEQUENCES: 373
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James F. Haley, Jr., Esq. c/o Fish & Neave
; STREET: 1251 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10021
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/490,324
; FILING DATE: 24-Jan-2000
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/025,769

Query Match      80.6%; Score 541.5; DB 2; Length 120;
Best Local Similarity 84.0%; Pred. No. 1.7e-44;
Matches 105; Conservative 5; Mismatches 10; Indels 5; Gaps 1;

QY 1 QVQLVQSGAEVKKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
QY 61 AQKFGQRTVTRDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGMDVWGQGT 120
Db 61 AQKFGQRTVTRDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGMDVWGQGT 120
QY 121 VTSS 125
Db 116 VTSS 120

RESULT 8
US-09-490-324-59
; Sequence 59, Application US/09490324
; Patent No. 6828422
; GENERAL INFORMATION:
; APPLICANT: Knappik, Achim
; Pack, Peter
; Ilag, Vic
; Ge, Liming
; Moroney, Simon
; Plueckthun, Andreas
; TITLE OF INVENTION: Protein/(Poly)peptide libraries
; NUMBER OF SEQUENCES: 373
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James F. Haley, Jr., Esq. c/o Fish & Neave
; STREET: 1251 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10021
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/490,324
; FILING DATE: 24-Jan-2000
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/025,769
```


/ FILING DATE: 18-FEB-1998
/ APPLICATION NUMBER: EP 95 11 3021.0
/ FILING DATE: 18-AUG-1995
/ ATTORNEY/AGENT INFORMATION:
/ NAME: James F. Haley, Jr., Esq.
/ REGISTRATION NUMBER: 27,794
/ REFERENCE/DOCKET NUMBER: MORPHO/5
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (212)596-9000
/ TELEFAX: (212)596-9090
/ INFORMATION FOR SEQ ID NO: 59:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 120 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ SEQUENCE DESCRIPTION: SEQ ID NO: 59:
US-09-490-324-59

Query Match 80.6%; Score 541.5; DB 2; Length 120;
Best Local Similarity 84.0%; Pred. No. 1.7e-44;
Matches 105; Conservative 5; Mismatches 10; Indels 5; Gaps 1;

QY 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATCGGLEWGWINPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATCGGLEWGWINPNSGNTDY 60

QY 61 AQKQGRVTMTDRTSISTAYMELSLRSDTAIYVCVRGFGYSYNYDYGGMDVWGQGT 120
Db 61 AQKQGRVTMTDRTSISTAYMELSLRSDTAIYVCVRGFGYSYNYDYGGMDVWGQGT 115

QY 121 VTVSS 125
Db 116 VTVSS 120

RESULT 9
US-09-025-769B-22
/ Sequence 22, Application US/09025769B
/ Patent No. 6300064
/ GENERAL INFORMATION:
/ APPLICANT: Knappik, Achim
/ APPLICANT: Pack, Peter
/ APPLICANT: Ilag, Vic
/ APPLICANT: Ge, Liming
/ APPLICANT: Moroney, Simon
/ APPLICANT: Plueckthun, Andreas
/ TITLE OF INVENTION: Protein/(Poly)peptide libraries
/ NUMBER OF SEQUENCES: 373
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: James F. Haley, Jr., Esq. c/o Fish & Neave
/ STREET: 1251 Avenue of the Americas
/ CITY: New York
/ STATE: New York
/ COUNTRY: USA
/ ZIP: 10021
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.30 (EPO)
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/025,769B
/ FILING DATE: 18-FEB-1998
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: EP 95 11 3021.0
/ FILING DATE: 18-AUG-1995
/ ATTORNEY/AGENT INFORMATION:
/ NAME: James F. Haley, Jr., Esq.
/ REGISTRATION NUMBER: 27,794
/ REFERENCE/DOCKET NUMBER: MORPHO/5
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (212)596-9000

/ TELEFAX: (212)596-9090
/ INFORMATION FOR SEQ ID NO: 22:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 117 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-09-025-769B-22

Query Match 78.6%; Score 528; DB 2; Length 117;
Best Local Similarity 82.5%; Pred. No. 3.2e-43;
Matches 104; Conservative 5; Mismatches 7; Indels 10; Gaps 2;

QY 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATCGGLEWGWINPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATCGGLEWGWINPNSGNTDY 60

QY 61 AQKQGRVTMTDRTSISTAYMELSLRSDTAIYVCVRGFGYSYNYDYGGMDVWGQGT 119
Db 61 AQKQGRVTMTDRTSISTAYMELSLRSDTAIYVCVRGFGYSYNYDYGGMDVWGQGT 111

QY 120 VTVSS 125
Db 112 VTVSS 117

RESULT 10
US-09-490-070A-22
/ Sequence 22, Application US/09490070A
/ Patent No. 6696248
/ GENERAL INFORMATION:
/ APPLICANT: Knappik, Achim
/ APPLICANT: Pack, Peter
/ APPLICANT: Ilag, Vic
/ APPLICANT: Ge, Liming
/ APPLICANT: Moroney, Simon
/ APPLICANT: Plueckthun, Andreas
/ TITLE OF INVENTION: Protein/(Poly)peptide libraries
/ NUMBER OF SEQUENCES: 373
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Colin G. Sandercock, Esq. c/o Heller Ehrman
/ STREET: 1666 K Street, N.W., Suite 300
/ CITY: Washington
/ STATE: D.C.
/ COUNTRY: USA
/ ZIP: 20006
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.30 (EPO)
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/490,070A
/ FILING DATE: 24-Jan-2000
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: EP 95 11 3021.0
/ FILING DATE: 18-AUG-1995
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Colin G. Sandercock, Esq.
/ REGISTRATION NUMBER: 31,298
/ REFERENCE/DOCKET NUMBER: 37629-0005
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (202) 912-2000
/ TELEFAX: (202) 912-2020
/ INFORMATION FOR SEQ ID NO: 22:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 117 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: <Unknown>
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein

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;
SEQUENCE DESCRIPTION: SEQ ID NO: 22:
US-09-490-070A-22

Query Match      78.6%; Score 528; DB 2; Length 117;
Best Local Similarity 82.5%; Pred. No. 3.2e-43;
Matches 104; Conservative 5; Mismatches 7; Indels 10; Gaps 2;

QY 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATGQGLEWGWINPNSGNTDY 60
   |||||
Db 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATGQGLEWGWINPNSGNTNY 60
   |||||

QY 61 AQKFGQRTVTRDTSISTAYMELSLRSEDTAIYYCVR-GFGYSYNYDYGGMDVWGQGT 119
   |||||
Db 61 AQKFGQRTVTRDTSISTAYMELSLRSEDTAIYYCVR-GFGYSYNYDYGGMDVWGQGT 119
   |||||

QY 120 TVTVSS 125
   |||||
Db 112 LVTVSS 117

RESULT 11
US-09-490-153-22
; Sequence 22, Application US/09490153
; Patent No. 6706484
; GENERAL INFORMATION:
; APPLICANT: Knappik, Achim
; Pack, Peter
; Ilag, Vic
; Ge, Liming
; Moroney, Simon
; Plueckthun, Andreas
; TITLE OF INVENTION: Protein/(Poly)peptide libraries
; NUMBER OF SEQUENCES: 373
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James F. Haley, Jr., Esq. c/o Fish & Neave
; STREET: 1251 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10021
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/490,153
; FILING DATE: 24-Jan-2000
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/025,769B
; FILING DATE: 18-FEB-1998
; APPLICATION NUMBER: EP 95 11 3021.0
; FILING DATE: 18-AUG-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: James F. Haley, Jr., Esq.
; REGISTRATION NUMBER: 27,794
; REFERENCE/DOCKET NUMBER: MORPHO/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)596-9000
; TELEFAX: (212)596-9090
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 117 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 22:
US-09-490-153-22

Query Match      78.6%; Score 528; DB 2; Length 117;
Best Local Similarity 82.5%; Pred. No. 3.2e-43;
Matches 104; Conservative 5; Mismatches 7; Indels 10; Gaps 2;

QY 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATGQGLEWGWINPNSGNTDY 60
   |||||
Db 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATGQGLEWGWINPNSGNTNY 60
   |||||

QY 61 AQKFGQRTVTRDTSISTAYMELSLRSEDTAIYYCVR-GFGYSYNYDYGGMDVWGQGT 119
   |||||
Db 61 AQKFGQRTVTRDTSISTAYMELSLRSEDTAIYYCVR-GFGYSYNYDYGGMDVWGQGT 119
   |||||

QY 120 TVTVSS 125
   |||||
Db 112 LVTVSS 117

RESULT 12
US-09-490-324-22
; Sequence 22, Application US/09490324
; Patent No. 6828422
; GENERAL INFORMATION:
; APPLICANT: Knappik, Achim
; Pack, Peter
; Ilag, Vic
; Ge, Liming
; Moroney, Simon
; Plueckthun, Andreas
; TITLE OF INVENTION: Protein/(Poly)peptide libraries
; NUMBER OF SEQUENCES: 373
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James F. Haley, Jr., Esq. c/o Fish & Neave
; STREET: 1251 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10021
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/490,324
; FILING DATE: 24-Jan-2000
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/025,769
; FILING DATE: 18-FEB-1998
; APPLICATION NUMBER: EP 95 11 3021.0
; FILING DATE: 18-AUG-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: James F. Haley, Jr., Esq.
; REGISTRATION NUMBER: 27,794
; REFERENCE/DOCKET NUMBER: MORPHO/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)596-9000
; TELEFAX: (212)596-9090
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 117 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 22:
US-09-490-324-22

Query Match      78.6%; Score 528; DB 2; Length 117;
Best Local Similarity 82.5%; Pred. No. 3.2e-43;
Matches 104; Conservative 5; Mismatches 7; Indels 10; Gaps 2;

QY 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATGQGLEWGWINPNSGNTDY 60
   |||||
Db 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATGQGLEWGWINPNSGNTNY 60
   |||||

QY 61 AQKFGQRTVTRDTSISTAYMELSLRSEDTAIYYCVR-GFGYSYNYDYGGMDVWGQGT 119
   |||||
Db 61 AQKFGQRTVTRDTSISTAYMELSLRSEDTAIYYCVR-GFGYSYNYDYGGMDVWGQGT 119
   |||||

QY 120 TVTVSS 125
   |||||
Db 112 LVTVSS 117
```

Db 61 AQKQGRVTMTDTSISTAYMELSLRSDTAIVYICARDGDG-----GFDYWGQST 111

QY 120 TVTVSS 125
Db 112 LVTVSS 117

RESULT 13
US-09-859-053-28
; Sequence 28, Application US/09859053
; Patent No. 6803039
; GENERAL INFORMATION:
; APPLICANT: Tezuka, Takashi
; APPLICANT: Tezuka, Katsunari
; APPLICANT: Hori, No. 6803039uaki
; TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODY AGAINST A
; TITLE OF INVENTION: COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE AILIM AND
; TITLE OF INVENTION: PHARMACEUTICAL USE THEREOF
; FILE REFERENCE: 06501-079001
; CURRENT APPLICATION NUMBER: US/09/859,053
; CURRENT FILING DATE: 2001-05-16
; PRIOR APPLICATION NUMBER: JP 2001-99508
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: JP 2000-147116
; PRIOR FILING DATE: 2000-05-18
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 470
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-859-053-28

Query Match 78.3%; Score 526; DB 2; Length 470;
Best Local Similarity 79.3%; Pred. No. 2.4e-42;
Matches 99; Conservative 10; Mismatches 16; Indels 0; Gaps 0;
QY 1 QVQLVQSGAEVKKPKGASVKVCKASGYTFTSYDINNVQRQATCGQGLEWGMGWINPNSGNTDY 60
Db 20 QVQLVQSGAEVKKPKGASVKVCKASGYTFTGYMHVVRAPQGQLEWGMGWINPHSGGNTY 79
QY 61 AQKQGRVTMTDTSISTAYMELSLRSDTAIYYCVRGFGYSYNDYYGMDVWGQGTFT 120
Db 80 AQKQGRVTMTDTSISTAYMELSLRSDTAIVYICARTYYDDSSGYHDAFDINGQGT 139
QY 121 VTVSS 125
Db 140 VTVSS 144

RESULT 14
US-09-199-149-3
; Sequence 3, Application US/09199149
; Patent No. 6160099
; GENERAL INFORMATION:
; APPLICANT: Jonak, Zdenka L.
; APPLICANT: Taylor, Alexander H.
; APPLICANT: Trulli Jr., Stephen H.
; APPLICANT: Johanson, Kyung O.
; TITLE OF INVENTION: Humanized Monoclonal Antibodies
; FILE REFERENCE: P50860
; CURRENT APPLICATION NUMBER: US/09/199,149
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 125
; TYPE: PRT
; ORGANISM: Kabat VH subgroup I
US-09-199-149-3

Query Match 76.3%; Score 513; DB 2; Length 125;

Best Local Similarity 80.6%; Pred. No. 9.3e-42;
Matches 104; Conservative 8; Mismatches 9; Indels 8; Gaps 5;
QY 1 QVQLVQSGAEVKKPKGASVKVCKASGYTFTSYDINNVQRQATCGQGLEWGMGWINPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPKGASVKVCKASGYTFTSYAISVVRQAPQGQLEWGMGWINP-GGDTNY 59
QY 61 AQKQGRVTMTDTSISTAYMELSLRSDTAIYYCVR-GFGYS---YNDYYGMDVWG 116
Db 60 AQKQGRVTITADTSTSTAYMELSLRSDTAIVYICARPGYGGGCGY-NYWG--VWG 116
QY 117 QGTVTVSS 125
Db 117 QGTLTVSS 125

RESULT 15
US-08-202-047-22
; Sequence 22, Application US/08202047
; Patent No. 5800815
; GENERAL INFORMATION:
; APPLICANT: CHESNUT, Robert W.
; APPLICANT: POLLEY, Margaret J.
; APPLICANT: PAULSON, James C.
; APPLICANT: JONES, S. Tarran
; APPLICANT: SALDANHA, Jose W.
; APPLICANT: BENDIG, Mary M.
; TITLE OF INVENTION: Antibodies to P-Selectin and Their Uses
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend Kourie and Crew
; STREET: One Market Plaza, Steuart Tower, Suite 2000
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/202,047
; FILING DATE: 25-FEB-1994
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, William M.
; REGISTRATION NUMBER: 30,223
; REFERENCE/DOCKET NUMBER: 14137-77
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 128 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..128
; OTHER INFORMATION: /label= HUMAN_I

US-08-202-047-22
Query Match 76.0%; Score 510.5; DB 1; Length 128;
Best Local Similarity 77.9%; Pred. No. 1.7e-41;
Matches 102; Conservative 7; Mismatches 13; Indels 9; Gaps 3;
QY 1 QVQLVQSGAEVKKPKGASVKVCKASGYTFTSYDINNVQRQATCGQGLEWGMGWINP-NSGNTD 59
Db 1 QVQLVQSGAEVKKPKGASVKVCKASGYTFTSYAISVVRQAPQGQLEWGMGWINPYNGDNT 60

GenCore version 5.1.1.8
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OM protein - protein search, using sw model

Run on: May 15, 2006, 17:19:47 ; Search time 126.073 Seconds
(without alignments)
414.273 Million cell updates/sec

Title: US-10-041-860-48
Perfect score: 672
Sequence: 1 QVQLVQSGAEVKPGASVKV.....YDYVGMVWGQTTVTVSS 125

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications_AA_Main:*
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	672	100.0	125	4	US-10-041-860-48
2	672	100.0	125	4	US-10-041-860-200
3	672	100.0	125	4	US-10-041-860-237
4	672	100.0	125	4	US-10-041-860-372
5	672	100.0	125	4	US-10-041-860-383-2
6	638	94.9	125	4	US-10-041-860-38
7	638	94.9	125	4	US-10-041-860-203
8	638	94.9	125	4	US-10-041-860-240
9	638	94.9	125	4	US-10-041-860-343
10	638	94.9	125	4	US-10-041-860-354
11	593.5	88.3	126	4	US-10-041-860-19
12	593.5	88.3	126	4	US-10-041-860-201
13	593.5	88.3	126	4	US-10-041-860-288
14	593.5	88.3	126	4	US-10-041-860-383-18
15	579.5	86.2	125	4	US-10-041-860-238
16	575.5	85.6	126	4	US-10-041-860-40
17	575.5	85.6	126	4	US-10-041-860-204
18	575.5	85.6	126	4	US-10-041-860-241
19	575.5	85.6	126	4	US-10-041-860-349
20	575.5	85.6	126	4	US-10-041-860-383-58
21	572	85.1	127	4	US-10-041-860-44
22	572	85.1	127	4	US-10-041-860-205
23	572	85.1	127	4	US-10-041-860-242
24	572	85.1	127	4	US-10-041-860-360
25	572	85.1	127	4	US-10-041-860-366
26	567.5	84.4	126	4	US-10-041-860-21
27	567.5	84.4	126	4	US-10-041-860-199

28	567.5	84.4	126	4	US-10-041-860-236
29	567.5	84.4	126	4	US-10-041-860-294
30	567.5	84.4	126	4	US-10-041-860-22
31	562.5	83.7	124	4	US-10-309-762-125
32	561.5	83.6	122	4	US-10-269-805-61
33	561.5	83.6	126	4	US-10-041-860-37
34	561.5	83.6	126	4	US-10-041-860-202
35	561.5	83.6	126	4	US-10-041-860-239
36	561.5	83.6	126	4	US-10-041-860-239
37	558.5	83.1	145	4	US-10-478-056-29
38	554	82.4	125	5	US-10-727-155-162
39	553.5	82.4	126	5	US-10-734-661A-101
40	551.5	82.1	118	4	US-10-309-762-124
41	551	82.0	127	5	US-10-734-661A-103
42	548.5	81.6	255	6	US-11-090-847-79
43	547.5	81.5	128	4	US-10-371-942-46
44	544	81.0	476	3	US-09-747-669-3
45	544	81.0	476	4	US-10-290-703-3

ALIGNMENTS

RESULT 1
US-10-041-860-48
; Sequence 48, Application US/10041860
; Publication No. US20030157109A1
; GENERAL INFORMATION:
; APPLICANT: Corvalan, Jose R.F.
; APPLICANT: Jia, Xiao-Chi
; APPLICANT: Feng, Xiao
; APPLICANT: Yang, Xiao-Dong
; APPLICANT: Chen, Francine
; APPLICANT: Gazit, Gadi
; APPLICANT: Weber, Richard
; APPLICANT: Bezabeh, Sinyam
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: ABGENIX.051A
; CURRENT APPLICATION NUMBER: US/10/041,860
; CURRENT FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 377
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 48
; LENGTH: 125
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-041-860-48
Query Match 100.0%; Score 672; DB 4; Length 125;
Best Local Similarity 100.0%; Pred. No. 8.6e-54;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 QVQLVQSGAEVKPGASVKVSKASGYFTFTSYDINVRQATGQGLEWMGNINPNSGNTDY 60
Db 1 QVQLVQSGAEVKPGASVKVSKASGYFTFTSYDINVRQATGQGLEWMGNINPNSGNTDY 60
QY 61 AQKFGQRTVTRDTSISTAYMELSLRSEDTAIYYCVRGFGVSYNYDYVYGGMDVWGQGT 120
Db 61 AQKFGQRTVTRDTSISTAYMELSLRSEDTAIYYCVRGFGVSYNYDYVYGGMDVWGQGT 120
QY 121 VTVSS 125
Db 121 VTVSS 125
RESULT 2
US-10-041-860-200
; Sequence 200, Application US/10041860
; Publication No. US20030157109A1
; GENERAL INFORMATION:
; APPLICANT: Corvalan, Jose R.F.
; APPLICANT: Jia, Xiao-Chi

```
; APPLICANT: Feng, Xiao
; APPLICANT: Yang, Xiao-Dong
; APPLICANT: Chen, Francine
; APPLICANT: Gazit, Gadi
; APPLICANT: Weber, Richard
; APPLICANT: Bezabeh, Binyam
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: ABGENIX.051A
; CURRENT APPLICATION NUMBER: US/10/041,860
; CURRENT FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 377
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 200
; LENGTH: 125
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-041-860-200

Query Match      100.0%; Score 672; DB 4; Length 125;
Best Local Similarity 100.0%; Pred. No. 8.6e-54;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 QVQLVQSGAEVKPKGASVKVSKASGYTFTSYDINWVRQATGQGLEWGWNPNSGNTDY 60
Db      1 QVQLVQSGAEVKPKGASVKVSKASGYTFTSYDINWVRQATGQGLEWGWNPNSGNTDY 60

Qy      61 AQKFGQRTVMTTRDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGMDVWGQGT 120
Db      61 AQKFGQRTVMTTRDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGMDVWGQGT 120

Qy      121 VTVSS 125
Db      121 VTVSS 125

RESULT 3
US-10-041-860-237
; Sequence 237, Application US/10041860
; Publication No. US20030157109A1
; GENERAL INFORMATION:
; APPLICANT: Corvalan, Jose R.F.
; APPLICANT: Jia, Xiao-Chi
; APPLICANT: Feng, Xiao
; APPLICANT: Yang, Xiao-Dong
; APPLICANT: Chen, Francine
; APPLICANT: Gazit, Gadi
; APPLICANT: Weber, Richard
; APPLICANT: Bezabeh, Binyam
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: ABGENIX.051A
; CURRENT APPLICATION NUMBER: US/10/041,860
; CURRENT FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 377
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 237
; LENGTH: 125
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-041-860-237

Query Match      100.0%; Score 672; DB 4; Length 125;
Best Local Similarity 100.0%; Pred. No. 8.6e-54;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 QVQLVQSGAEVKPKGASVKVSKASGYTFTSYDINWVRQATGQGLEWGWNPNSGNTDY 60
Db      1 QVQLVQSGAEVKPKGASVKVSKASGYTFTSYDINWVRQATGQGLEWGWNPNSGNTDY 60

Qy      61 AQKFGQRTVMTTRDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGMDVWGQGT 120
Db      61 AQKFGQRTVMTTRDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGMDVWGQGT 120

Qy      121 VTVSS 125
Db      121 VTVSS 125

RESULT 4
US-10-041-860-372
; Sequence 372, Application US/10041860
; Publication No. US20030157109A1
; GENERAL INFORMATION:
; APPLICANT: Corvalan, Jose R.F.
; APPLICANT: Jia, Xiao-Chi
; APPLICANT: Feng, Xiao
; APPLICANT: Yang, Xiao-Dong
; APPLICANT: Chen, Francine
; APPLICANT: Gazit, Gadi
; APPLICANT: Weber, Richard
; APPLICANT: Bezabeh, Binyam
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: ABGENIX.051A
; CURRENT APPLICATION NUMBER: US/10/041,860
; CURRENT FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 377
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 372
; LENGTH: 125
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-041-860-372

Query Match      100.0%; Score 672; DB 4; Length 125;
Best Local Similarity 100.0%; Pred. No. 8.6e-54;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 QVQLVQSGAEVKPKGASVKVSKASGYTFTSYDINWVRQATGQGLEWGWNPNSGNTDY 60
Db      1 QVQLVQSGAEVKPKGASVKVSKASGYTFTSYDINWVRQATGQGLEWGWNPNSGNTDY 60

Qy      61 AQKFGQRTVMTTRDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGMDVWGQGT 120
Db      61 AQKFGQRTVMTTRDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGMDVWGQGT 120

Qy      121 VTVSS 125
Db      121 VTVSS 125

RESULT 5
US-10-665-383-2
; Sequence 2, Application US/10665383
; Publication No. US20040141969A1
; GENERAL INFORMATION:
; APPLICANT: Floege, Juergen
; APPLICANT: Gazit, Gadi
; APPLICANT: Keyt, Bruce
; APPLICANT: Larochele, William
; APPLICANT: Lichenstein, Henri
; TITLE OF INVENTION: METHOD FOR THE TREATMENT OF NEPHRITIS
; TITLE OF INVENTION: USING ANTI-PDGF-DD ANTIBODIES
; FILE REFERENCE: ABGENIX.052A
; CURRENT APPLICATION NUMBER: US/10/665,383
; CURRENT FILING DATE: 2003-09-16
; PRIOR APPLICATION NUMBER: 60/411,137
; PRIOR FILING DATE: 2002-09-16
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 125
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-665-383-2
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Query Match 100.0%; Score 672; DB 4; Length 125;
Best Local Similarity 100.0%; Pred. No. 8.6e-54;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QVQLVQSGAEVKPKGASVKVSKASGYTFTSYDINWVRQATCGGLEWGMWNPNSGNTDY 60
DB 1 QVQLVQSGAEVKPKGASVKVSKASGYTFTSYDINWVRQATCGGLEWGMWNPNSGNTDY 60

QY 61 AOKFQGRVTMTDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGMDVWGQGT 120
DB 61 AOKFQGRVTMTDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGMDVWGQGT 120

QY 121 VTSS 125
DB 121 VTSS 125

RESULT 6
US-10-041-860-38
; Sequence 38, Application US/10041860
; Publication No. US20030157109A1
; GENERAL INFORMATION:
; APPLICANT: Corvalan, Jose R.F.
; APPLICANT: Jia, Xiao-Chi
; APPLICANT: Feng, Xiao
; APPLICANT: Yang, Xiao-Dong
; APPLICANT: Chen, Francine
; APPLICANT: Gazit, Gadi
; APPLICANT: Weber, Richard
; APPLICANT: Bezabeh, Binyam
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
; FILE REFERENCE: ABGENIX.051A
; CURRENT APPLICATION NUMBER: US/10/041,860
; CURRENT FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 377
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 125
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-041-860-38

Query Match 94.9%; Score 638; DB 4; Length 125;
Best Local Similarity 94.4%; Pred. No. 1.1e-50;
Matches 118; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 QVQLVQSGAEVKPKGASVKVSKASGYTFTSYDINWVRQATCGGLEWGMWNPNSGNTDY 60
DB 1 QVQLVQSGAEVKPKGASVKVSKASGYTFTSYDINWVRQATCGGLEWGMWNPNSGNTGY 60

QY 61 AOKFQGRVTMTDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGMDVWGQGT 120
DB 61 AOKFQGRVTMTDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGMDVWGQGT 120

QY 121 VTSS 125
DB 121 VTSS 125

RESULT 7
US-10-041-860-203
; Sequence 203, Application US/10041860
; Publication No. US20030157109A1
; GENERAL INFORMATION:
; APPLICANT: Corvalan, Jose R.F.
; APPLICANT: Jia, Xiao-Chi
; APPLICANT: Feng, Xiao
; APPLICANT: Yang, Xiao-Dong
; APPLICANT: Chen, Francine
; APPLICANT: Gazit, Gadi
; APPLICANT: Weber, Richard

; APPLICANT: Bezabeh, Binyam
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
; FILE REFERENCE: ABGENIX.051A
; CURRENT APPLICATION NUMBER: US/10/041,860
; CURRENT FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 377
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 203
; LENGTH: 125
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-041-860-203

Query Match 94.9%; Score 638; DB 4; Length 125;
Best Local Similarity 94.4%; Pred. No. 1.1e-50;
Matches 118; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 QVQLVQSGAEVKPKGASVKVSKASGYTFTSYDINWVRQATCGGLEWGMWNPNSGNTDY 60
DB 1 QVQLVQSGAEVKPKGASVKVSKASGYTFTSYDINWVRQATCGGLEWGMWNPNSGNTGY 60

QY 61 AOKFQGRVTMTDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGMDVWGQGT 120
DB 61 AOKFQGRVTMTDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGMDVWGQGT 120

QY 121 VTSS 125
DB 121 VTSS 125

RESULT 8
US-10-041-860-240
; Sequence 240, Application US/10041860
; Publication No. US20030157109A1
; GENERAL INFORMATION:
; APPLICANT: Corvalan, Jose R.F.
; APPLICANT: Jia, Xiao-Chi
; APPLICANT: Feng, Xiao
; APPLICANT: Yang, Xiao-Dong
; APPLICANT: Chen, Francine
; APPLICANT: Gazit, Gadi
; APPLICANT: Weber, Richard
; APPLICANT: Bezabeh, Binyam
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
; FILE REFERENCE: ABGENIX.051A
; CURRENT APPLICATION NUMBER: US/10/041,860
; CURRENT FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 377
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 240
; LENGTH: 125
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-041-860-240

Query Match 94.9%; Score 638; DB 4; Length 125;
Best Local Similarity 94.4%; Pred. No. 1.1e-50;
Matches 118; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 QVQLVQSGAEVKPKGASVKVSKASGYTFTSYDINWVRQATCGGLEWGMWNPNSGNTDY 60
DB 1 QVQLVQSGAEVKPKGASVKVSKASGYTFTSYDINWVRQATCGGLEWGMWNPNSGNTGY 60

QY 61 AOKFQGRVTMTDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGMDVWGQGT 120
DB 61 AOKFQGRVTMTDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYYGMDVWGQGT 120

QY 121 VTSS 125
DB 121 VTSS 125

```
RESULT 9
US-10-041-860-343
; Sequence 343, Application US/10041860
; Publication No. US20030157109A1
; GENERAL INFORMATION:
; APPLICANT: Corvalan, Jose R.F.
; APPLICANT: Jia, Xiao-Chi
; APPLICANT: Feng, Xiao
; APPLICANT: Yang, Xiao-Dong
; APPLICANT: Chen, Francine
; APPLICANT: Gazit, Gadi
; APPLICANT: Weber, Richard
; APPLICANT: Bezabeh, Binyam
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: ABGENIX.051A
; CURRENT APPLICATION NUMBER: US/10/041,860
; CURRENT FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 377
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 343
; LENGTH: 125
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-041-860-343

Query Match 94.9%; Score 638; DB 4; Length 125;
Best Local Similarity 94.4%; Pred. No. 1.1e-50;
Matches 118; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 1 QVQLVQSGAEVKKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWGWNPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWGWNPNSGNTGY 60

Qy 61 AQKFGQGRVTMTTRDTSISTAYMELSLRSEDTAIYYCVRGFGSYNYDYGGMDVWGQGT 120
Db 61 AQKFGQGRVTMTTRDTSISTAYMELSLRSEDTAIYYCVRGFGSYNYDYGGMDVWGQGT 120

Qy 121 VTVSS 125
Db 121 VTVSS 125

RESULT 10
US-10-041-860-343
; Sequence 343, Application US/10041860
; Publication No. US20030157109A1
; GENERAL INFORMATION:
; APPLICANT: Corvalan, Jose R.F.
; APPLICANT: Jia, Xiao-Chi
; APPLICANT: Feng, Xiao
; APPLICANT: Yang, Xiao-Dong
; APPLICANT: Chen, Francine
; APPLICANT: Gazit, Gadi
; APPLICANT: Weber, Richard
; APPLICANT: Bezabeh, Binyam
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: ABGENIX.051A
; CURRENT APPLICATION NUMBER: US/10/041,860
; CURRENT FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 377
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 343
; LENGTH: 125
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-041-860-343

Query Match 94.9%; Score 638; DB 4; Length 125;
Best Local Similarity 94.4%; Pred. No. 1.1e-50;
Matches 118; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 1 QVQLVQSGAEVKKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWGWNPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWGWNPNSGNTGY 60

Qy 61 AQKFGQGRVTMTTRDTSISTAYMELSLRSEDTAIYYCVRGFGSYNYDYGGMDVWGQGT 120
Db 61 AQKFGQGRVTMTTRDTSISTAYMELSLRSEDTAIYYCVRGFGSYNYDYGGMDVWGQGT 120

Qy 121 VTVSS 125
Db 121 VTVSS 125

RESULT 11
US-10-041-860-19
; Sequence 19, Application US/10041860
; Publication No. US20030157109A1
; GENERAL INFORMATION:
; APPLICANT: Corvalan, Jose R.F.
; APPLICANT: Jia, Xiao-Chi
; APPLICANT: Feng, Xiao
; APPLICANT: Yang, Xiao-Dong
; APPLICANT: Chen, Francine
; APPLICANT: Gazit, Gadi
; APPLICANT: Weber, Richard
; APPLICANT: Bezabeh, Binyam
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: ABGENIX.051A
; CURRENT APPLICATION NUMBER: US/10/041,860
; CURRENT FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 377
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 126
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-041-860-19

Query Match 88.3%; Score 593.5; DB 4; Length 126;
Best Local Similarity 89.7%; Pred. No. 1.3e-46;
Matches 113; Conservative 4; Mismatches 8; Indels 1; Gaps 1;

Qy 1 QVQLVQSGAEVKKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWGWNPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWGWNPNSGNTGY 60

Qy 61 AQKFGQGRVTMTTRDTSISTAYMELSLRSEDTAIYYCVR-GFGYSYNYDYGGMDVWGQGT 119
Db 61 AQKFGQGRVTMTTRDTSISTAYMELSLRSEDTAIYYCAREGIAVAGTYYYYYGGMDVWGQGT 120

Qy 120 TVTVSS 125
Db 121 TVTVSS 126

RESULT 12
US-10-041-860-201
; Sequence 201, Application US/10041860
; Publication No. US20030157109A1
; GENERAL INFORMATION:
; APPLICANT: Corvalan, Jose R.F.
; APPLICANT: Jia, Xiao-Chi
; APPLICANT: Feng, Xiao
; APPLICANT: Yang, Xiao-Dong
; APPLICANT: Chen, Francine
; APPLICANT: Gazit, Gadi
; APPLICANT: Weber, Richard
; APPLICANT: Bezabeh, Binyam
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: ABGENIX.051A
; CURRENT APPLICATION NUMBER: US/10/041,860
```



```
; CURRENT FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 377
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 201
; LENGTH: 126
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-041-860-201

Query Match      88.3%; Score 593.5; DB 4; Length 126;
Best Local Similarity 89.7%; Pred. No. 1.3e-46;
Matches 113; Conservative 4; Mismatches 8; Indels 1; Gaps 1;

QY 1 QVQLVQSGAEVKKPKGASVKVSKASGYTFTSYDINWVRQATQGGLEWGMWNPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPKGASVKVSKASGYTFTSYDINWVRQATQGGLEWGMWNPNSGNTGY 60

QY 61 AQKFGQRTVMTTRDTSISTAYMELSLRSEDTAIYYCVR-GFGYSYNYDYIYGMDVWGQQT 119
Db 61 AQKFGQRTVMTTRNTSISTAYMELSLRSEDTAIYYCAREGIAVAGTYYYYYGMVWGQQT 120

QY 120 TTVTSS 125
Db 121 TTVTSS 126
```

```
RESULT 13
US-10-041-860-288
; Sequence 288, Application US/10041860
; Publication No. US20030157109A1
; GENERAL INFORMATION:
; APPLICANT: Corvalan, Jose R.F.
; APPLICANT: Jia, Xiao-Chi
; APPLICANT: Feng, Xiao
; APPLICANT: Yang, Xiao-Dong
; APPLICANT: Chen, Francine
; APPLICANT: Gazit, Gadi
; APPLICANT: Weber, Richard
; APPLICANT: Bezabeh, Binyam
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
; FILE REFERENCE: ABGENIX.051A
; CURRENT APPLICATION NUMBER: US/10/041,860
; CURRENT FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 377
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 288
; LENGTH: 126
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-041-860-288

Query Match      88.3%; Score 593.5; DB 4; Length 126;
Best Local Similarity 89.7%; Pred. No. 1.3e-46;
Matches 113; Conservative 4; Mismatches 8; Indels 1; Gaps 1;

QY 1 QVQLVQSGAEVKKPKGASVKVSKASGYTFTSYDINWVRQATQGGLEWGMWNPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPKGASVKVSKASGYTFTSYDINWVRQATQGGLEWGMWNPNSGNTGY 60

QY 61 AQKFGQRTVMTTRDTSISTAYMELSLRSEDTAIYYCVR-GFGYSYNYDYIYGMDVWGQQT 119
Db 61 AQKFGQRTVMTTRNTSISTAYMELSLRSEDTAIYYCAREGIAVAGTYYYYYGMVWGQQT 120

QY 120 TTVTSS 125
Db 121 TTVTSS 126
```

```
RESULT 14
US-10-665-383-18
; Sequence 18, Application US/10665383
; Publication No. US20040141969A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Floege, Juergen
; APPLICANT: Gazit, Gadi
; APPLICANT: Keyt, Bruce
; APPLICANT: LaRochele, William
; APPLICANT: Lichenstein, Henri
; TITLE OF INVENTION: METHOD FOR THE TREATMENT OF NEPHRITIS
; FILE REFERENCE: ABGENIX.052A
; CURRENT APPLICATION NUMBER: US/10/665,383
; CURRENT FILING DATE: 2003-09-16
; PRIOR APPLICATION NUMBER: 60/411,137
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 126
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-665-383-18
```

```
Query Match      88.3%; Score 593.5; DB 4; Length 126;
Best Local Similarity 89.7%; Pred. No. 1.3e-46;
Matches 113; Conservative 4; Mismatches 8; Indels 1; Gaps 1;

QY 1 QVQLVQSGAEVKKPKGASVKVSKASGYTFTSYDINWVRQATQGGLEWGMWNPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPKGASVKVSKASGYTFTSYDINWVRQATQGGLEWGMWNPNSGNTGY 60

QY 61 AQKFGQRTVMTTRDTSISTAYMELSLRSEDTAIYYCVR-GFGYSYNYDYIYGMDVWGQQT 119
Db 61 AQKFGQRTVMTTRNTSISTAYMELSLRSEDTAIYYCAREGIAVAGTYYYYYGMVWGQQT 120

QY 120 TTVTSS 125
Db 121 TTVTSS 126
```

```
RESULT 15
US-10-041-860-238
; Sequence 238, Application US/10041860
; Publication No. US20030157109A1
; GENERAL INFORMATION:
; APPLICANT: Corvalan, Jose R.F.
; APPLICANT: Jia, Xiao-Chi
; APPLICANT: Feng, Xiao
; APPLICANT: Yang, Xiao-Dong
; APPLICANT: Chen, Francine
; APPLICANT: Gazit, Gadi
; APPLICANT: Weber, Richard
; APPLICANT: Bezabeh, Binyam
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
; FILE REFERENCE: ABGENIX.051A
; CURRENT APPLICATION NUMBER: US/10/041,860
; CURRENT FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 377
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 238
; LENGTH: 125
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-041-860-238
```

```
Query Match      86.2%; Score 579.5; DB 4; Length 125;
Best Local Similarity 89.4%; Pred. No. 2.5e-45;
Matches 110; Conservative 4; Mismatches 8; Indels 1; Gaps 1;

QY 4 LVQSGAEVKKPKGASVKVSKASGYTFTSYDINWVRQATQGGLEWGMWNPNSGNTDYAQK 63
Db 3 LVQSGAEVKKPKGASVKVSKASGYTFTSYDINWVRQATQGGLEWGMWNPNSGNTGYAQK 62

QY 64 FQGRVTMTTRDTSISTAYMELSLRSEDTAIYYCVR-GFGYSYNYDYIYGMDVWGQQT 122
```

Db 63 PQGRVTMTNTSISTAYMELSLRSEDTAVVYCAREGIAVAGTYYYYYGMDDVNGGTTVT 122

Qy 123 VSS 125

Db 123 VSS 125

Search completed: May 15, 2006, 17:25:06
Job time : 127.073 secs

Result No.	Score	Query Match	Length	DB	ID	Description
1	561.5	83.6	122	9	US-10-982-440-61	Sequence 61, Appl
2	558.5	83.1	145	9	US-10-721-763-29	Sequence 29, Appl
3	546.5	81.3	124	11	US-11-040-159-8	Sequence 8, Appl
4	541.5	80.6	120	9	US-10-834-397-36	Sequence 36, Appl
5	541.5	80.6	120	9	US-10-834-397-59	Sequence 59, Appl
6	536.5	79.8	247	11	US-11-054-515-1729	Sequence 1729, Ap
7	536.5	79.8	247	11	US-11-266-444-1729	Sequence 1729, Ap
8	536	79.8	125	9	US-10-982-440-45	Sequence 45, Appl
9	534.5	79.5	249	11	US-11-054-515-919	Sequence 919, App
10	534.5	79.5	249	11	US-11-266-444-919	Sequence 919, App
11	528	78.6	117	9	US-10-834-397-22	Sequence 22, Appl
12	527.5	78.5	122	10	US-11-211-917-110	Sequence 110, App
13	524.5	78.1	245	11	US-11-054-515-1896	Sequence 1896, Ap
14	524.5	78.1	245	11	US-11-266-444-1896	Sequence 1896, Ap
15	524	78.0	255	11	US-11-054-515-1407	Sequence 1407, Ap
16	524	78.0	255	11	US-11-266-444-1407	Sequence 1407, Ap
17	523.5	77.9	247	11	US-11-054-515-927	Sequence 927, App
18	523.5	77.9	247	11	US-11-054-515-948	Sequence 948, App
19	523.5	77.9	247	11	US-11-266-444-927	Sequence 927, App
20	523.5	77.9	247	11	US-11-266-444-948	Sequence 948, App
21	520	77.4	256	11	US-11-054-515-1301	Sequence 1301, Ap

;; TITLE OF INVENTION: ANTI TRAIL-R ANTIBODY
;; FILE REFERENCE: PH-1573-PCT
;; CURRENT APPLICATION NUMBER: US/10/721,763
;; CURRENT FILING DATE: 2003-11-26
;; PRIOR APPLICATION NUMBER: JP2001-150213
;; PRIOR FILING DATE: 2001-05-18
;; PRIOR APPLICATION NUMBER: JP2001-243040
;; PRIOR FILING DATE: 2001-08-09
;; PRIOR APPLICATION NUMBER: JP2001-314489
;; PRIOR FILING DATE: 2001-10-11
;; NUMBER OF SEQ ID NOS: 45
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 29
;; LENGTH: 145
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-10-721-763-29

Query Match 83.1%; Score 558.5; DB 9; Length 145;
Best Local Similarity 83.3%; Pred. No. 5.1e-44;
Matches 105; Conservative 9; Mismatches 11; Indels 1; Gaps 1;

Qy 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
Db 20 QVQLVQSGAEVKKPGASVKVSCKTSGYFTTYKINWVRQAPGQGLEWMGWINPDTSTGY 79

Qy 61 AQKFGQGRVTMTSDTSISTAYMELSLRSDTAIYYCVRGFGY-SYNYDYVYGMVWGQGT 119
Db 80 PQKFGQGRVTMTSDTSISTAYMELSLRSDTAIVYCARSGYSGYRDYVYGMVWGQGT 139

Qy 120 TVTVSS 125
Db 140 TVTVSS 145

RESULT 3
US-11-040-159-8
;; Sequence 8, Application US/11040159
;; Publication No. US2005025552A1
;; GENERAL INFORMATION:
;; APPLICANT: Flynn, Peter
;; APPLICANT: Luehrs, Kenneth
;; APPLICANT: Balint, Robert F.
;; APPLICANT: Het, Jeng-Hong
;; APPLICANT: Bebbington, Christopher R.
;; APPLICANT: Yarranton, Geoffrey T.
;; APPLICANT: KaloBios, Inc.
;; TITLE OF INVENTION: Antibody Specificity Transfer Using Minimal Essential
;; FILE REFERENCE: 021167-001730US
;; CURRENT APPLICATION NUMBER: US/11/040,159
;; CURRENT FILING DATE: 2005-01-20
;; PRIOR APPLICATION NUMBER: US 60/537,364
;; PRIOR FILING DATE: 2004-01-20
;; PRIOR APPLICATION NUMBER: US 60/546,216
;; PRIOR FILING DATE: 2004-02-23
;; NUMBER OF SEQ ID NOS: 133
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 8
;; LENGTH: 124
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: BA130-5-E10 Vh human
;; OTHER INFORMATION: variable region containing minimal essential binding
;; OTHER INFORMATION: specificity domain (MBSD) in heavy chain CDR3 from murine
;; OTHER INFORMATION: anti-PcrV antibody M166 and complete human J-region (JH6)
US-11-040-159-8

Query Match 81.3%; Score 546.5; DB 11; Length 124;
Best Local Similarity 83.2%; Pred. No. 5.4e-43;
Matches 104; Conservative 8; Mismatches 12; Indels 1; Gaps 1;

Qy 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
Db 1 EVQLVESGAEVKKPGASVKVSCKASGYTFTGYMHWVRQAPGQGLEWMGWINPNSGGTNY 60

Qy 61 AQKFGQGRVTMTSDTSISTAYMELSLRSDTAIYYCVRGFGY-SYNYDYVYGMVWGQGT 120
Db 61 AQKFGQGRVTMTSDTSISTAYMELSLRSDTAIVYCARNGDIY-YDFTYGMVWGQGT 119

Qy 121 TVTVSS 125
Db 120 TVTVSS 124

RESULT 4
US-10-834-397-36
;; Sequence 36, Application US/10834397
;; Publication No. US20060003334A1
;; GENERAL INFORMATION:
;; APPLICANT: Knappik, Achim
;; Pack, Peter
;; Ilag, Vic
;; Ge, Liming
;; Moroney, Simon
;; Plueckthun, Andreas
;; TITLE OF INVENTION: Protein/(Poly)peptide libraries
;; NUMBER OF SEQUENCES: 373
;; CORRESPONDENCE ADDRESS:
;; ADDRESSER: James F. Haley, Jr., Esq. c/o Fish & Neave
;; STREET: 1251 Avenue of the Americas
;; CITY: New York
;; STATE: New York
;; COUNTRY: USA
;; ZIP: 10021
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/10/834,397
;; FILING DATE: 29-Apr-2004
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US/09/490,324
;; FILING DATE: 24-Jan-2000
;; APPLICATION NUMBER: US/09/025,769
;; FILING DATE: 18-FEB-1998
;; APPLICATION NUMBER: EP 95 11 3021.0
;; FILING DATE: 18-AUG-1995
;; ATTORNEY/AGENT INFORMATION:
;; NAME: James F. Haley, Jr., Esq.
;; REGISTRATION NUMBER: 27,794
;; REFERENCE/DOCKET NUMBER: MORPHO/5
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (212)596-9000
;; TELEFAX: (212)596-9090
;; INFORMATION FOR SEQ ID NO: 36:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 120 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: <Unknown>
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; SEQUENCE DESCRIPTION: SEQ ID NO: 36:
US-10-834-397-36

Query Match 80.6%; Score 541.5; DB 9; Length 120;
Best Local Similarity 84.0%; Pred. No. 1.5e-42;
Matches 105; Conservative 5; Mismatches 10; Indels 5; Gaps 1;

Qy 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYMHWVRQAPGQGLEWMGWINPNSGGTNY 60

QY 61 AQKFGQVMTTRDTSISTAYMELSSLRSDTAIYYCVRGFGYSYNYDYVYGGMDVWGQGT 120
Db |||||
116 VTVSS 120
QY 121 VTVSS 125
Db |||||
116 VTVSS 120

RESULT 5
US-10-834-397-59
; Sequence 59, Application US/10834397
; Publication No. US2006000334A1
; GENERAL INFORMATION:
; APPLICANT: Knappik, Achim
; Pack, Peter
; Ilag, Vic
; Ge, Liming
; Moroney, Simon
; Plueckthun, Andreas
; TITLE OF INVENTION: Protein/(Poly)peptide libraries
; NUMBER OF SEQUENCES: 373
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James F. Haley, Jr., Esq. c/o Fish & Neave
; STREET: 1251 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10021
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA: US/10/834,397
; FILING DATE: 29-Apr-2004
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/490,324
; FILING DATE: 24-Jan-2000
; APPLICATION NUMBER: US/09/025,769
; FILING DATE: 18-FEB-1998
; APPLICATION NUMBER: EP 95 11 3021.0
; FILING DATE: 18-AUG-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: James F. Haley, Jr., Esq.
; REGISTRATION NUMBER: 27,794
; REFERENCE/DOCKET NUMBER: MORPHO/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 596-9000
; TELEFAX: (212) 596-9090
; INFORMATION FOR SEQ ID NO: 59:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 120 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 59:
US-10-834-397-59

Query Match 80.6%; Score 541.5; DB 9; Length 120;
Best Local Similarity 84.0%; Pred. No. 1.5e-42;
Matches 105; Conservative 5; Mismatches 10; Indels 5; Gaps 1;
QY 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFSTVDINWVRQATCGGLEWGWINPNSGNTDY 60
Db |||||
1 QVQLVQSGAEVKKPGASVKVSCKASGYTFSTYMHVVRQAPQGGLWGWINPNSGGTNY 60
QY 61 AQKFGQVMTTRDTSISTAYMELSSLRSDTAIYYCVRGFGYSYNYDYVYGGMDVWGQGT 120
Db |||||
116 VTVSS 125

Db |||||
116 VTVSS 120
RESULT 6
US-11-054-515-1729
; Sequence 1729, Application US/11054515
; Publication No. US2005025532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PFS23P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1729
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1729
Query Match 79.8%; Score 536.5; DB 11; Length 247;
Best Local Similarity 81.6%; Pred. No. 8.7e-42;
Matches 102; Conservative 8; Mismatches 14; Indels 1; Gaps 1;
QY 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFSTVDINWVRQATCGGLEWGWINPNSGNTDY 60
Db |||||
1 QVQLVQSGAEVKKPGASVKVSCKASGYTFSTYMHVVRQAPQGGLWGWINPNSGGTNY 60
QY 61 AQKFGQVMTTRDTSISTAYMELSSLRSDTAIYYCVRGFGYSYNYDYVYGGMDVWGQGT 120
Db |||||
61 AQKFGQVMTTRDTSISTAYMELSSLRSDTAIYYCARGY-YDILTGYDAFDINGKGT 119
QY 121 VTVSS 125
Db |||||
120 VTVSS 124
RESULT 7
US-11-266-444-1729
; Sequence 1729, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulat
; FILE REFERENCE: PFS23P1D1
; CURRENT APPLICATION NUMBER: US/11/266,444
; CURRENT FILING DATE: 2005-11-04
; PRIOR APPLICATION NUMBER: 09/880,746
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-16

```
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1729
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-266-444-1729

Query Match          79.8%; Score 536.5; DB 11; Length 247;
Best Local Similarity 81.6%; Pred. No. 8.7e-42;
Matches 102; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

Qy 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYVHWHVRQAPGQGLEWMGWINPNSGNTY 60

Qy 61 AQKQGRVTMTDRTSISTAYMELSLRSEDTAIYVCVRGFGSYNYDYGGMDVWGQGT 120
Db 61 AQKQGRVTMTDRTSISTAYMELSLRSLRSDTAIVYVCARGY-YDILTGYDADFIDWKGTM 119

Qy 121 VTVSS 125
Db 120 VTVSS 124

RESULT 8
US-10-982-440-45
; Sequence 45, Application US/10982440
; Publication No. US20060018909A1
; GENERAL INFORMATION:
; APPLICANT: Oliner, John
; TITLE OF INVENTION: Angiopoietin-2 Specific Binding Agents
; FILE REFERENCE: 04-881-A
; CURRENT APPLICATION NUMBER: US/10/982,440
; CURRENT FILING DATE: 2004-11-04
; PRIOR APPLICATION NUMBER: 60/620,161
; PRIOR FILING DATE: 2004-10-19
; NUMBER OF SEQ ID NOS: 215
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 45
; LENGTH: 125
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-982-440-45

Query Match          79.8%; Score 536; DB 9; Length 125;
Best Local Similarity 81.6%; Pred. No. 4.9e-42;
Matches 102; Conservative 7; Mismatches 16; Indels 0; Gaps 0;

Qy 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYGISWVRQAPGQGLEWMGWISAYNGNTY 60

Qy 61 AQKQGRVTMTDRTSISTAYMELSLRSEDTAIYVCVRGFGSYNYDYGGMDVWGQGT 120
Db 61 AQKQGRVTMTDRTSISTAYMELSLRSDTAIVYVCARDRGIARSAAYYGGMDVWGQGT 120

Qy 121 VTVSS 125
Db 121 VTVSS 125

RESULT 9
US-11-054-515-919
```

```
; Sequence 919, Application US/11054515
; Publication No. US2005025532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 919
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-919

Query Match          79.5%; Score 534.5; DB 11; Length 249;
Best Local Similarity 81.7%; Pred. No. 1.3e-41;
Matches 103; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

Qy 1 QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPGSSVKVSCKVSGTFTSSYALISWVRQAPGQGLEWMGNPNNSGNTGY 60

Qy 61 AQKQGRVTMTDRTSISTAYMELSLRSEDTAIYVCVRGFGSYNYDY-YGMDVWGQGT 119
Db 61 AQKQGRVTMTDRTSISTAYMELSLRSEDTAIVYVCARGTYDILTGYFHYGMDVWGQGT 120

Qy 120 VTVSS 125
Db 121 VTVSS 126

RESULT 10
US-11-266-444-919
; Sequence 919, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulator
; FILE REFERENCE: PF523P1D1
; CURRENT APPLICATION NUMBER: US/11/266,444
; CURRENT FILING DATE: 2005-11-04
; PRIOR APPLICATION NUMBER: 09/880,746
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
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; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 919
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-266-444-919

Query Match          79.5%; Score 534.5; DB 11; Length 249;
Best Local Similarity 81.7%; Pred. No. 1.3e-41;
Matches 103; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

QY 1 QVQLVQSGAEVKKPKGASVKVSKASGYTFTSYDINWVRQATCGQGLEWGWINPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPKGSSVKVSKVSGGTFTSSVAISWVRQAPGQGLEWGWINPNSGNTGY 60

QY 61 AQKFGQRTVMTTRDTSISTAYMELSLRSEDTAIYYCVRGFGYSYNDYY-YGMQVWGQGT 119
Db 61 AQKFGQRTVMTTRTSTISAYMELSLRSEDTAIYYCVRGFGYSYNDYY-YGMQVWGQGT 119

QY 120 TVTVSS 125
Db 121 TVTVSS 126

RESULT 11
US-10-834-397-22
; Sequence 22, Application US/10834397
; Publication No. US20060003334A1
; GENERAL INFORMATION:
; APPLICANT: Knappik, Achim
; Pack, Peter
; Ilag, Vic
; Ge, Liming
; Moroney, Simon
; Plueckthun, Andreas
; TITLE OF INVENTION: Protein/(Poly)peptide libraries
; NUMBER OF SEQUENCES: 373
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James F. Haley, Jr., Esq. c/o Fish & Neave
; STREET: 1251 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10021
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/834,397
; FILING DATE: 29-Apr-2004
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/490,324
; FILING DATE: 24-Jan-2000
; APPLICATION NUMBER: US/09/025,769
; FILING DATE: 18-FEB-1998
; APPLICATION NUMBER: EP 95 11 3021.0
; FILING DATE: 18-AUG-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: James F. Haley, Jr., Esq.
; REGISTRATION NUMBER: 27,794
; REFERENCE/DOCKET NUMBER: MORPHO/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)596-9000
; TELEFAX: (212)596-9090
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 117 amino acids
; TYPE: amino acid

; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 22:
US-10-834-397-22

Query Match          78.6%; Score 528; DB 9; Length 117;
Best Local Similarity 82.5%; Pred. No. 2.5e-41;
Matches 104; Conservative 5; Mismatches 7; Indels 10; Gaps 2;

QY 1 QVQLVQSGAEVKKPKGASVKVSKASGYTFTSYDINWVRQATCGQGLEWGWINPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPKGASVKVSKASGYTFTSYDINWVRQATCGQGLEWGWINPNSGNTNY 60

QY 61 AQKFGQRTVMTTRDTSISTAYMELSLRSEDTAIYYCVR-GFGYSYNDYYGMDVWGQGT 119
Db 61 AQKFGQRTVMTTRDTSISTAYMELSLRSDDTAVYYCARDGDG-----GFDYWGQGT 111

QY 120 TVTVSS 125
Db 112 LVTVSS 117

RESULT 12
US-11-211-917-110
; Sequence 110, Application US/11211917
; Publication No. US20060093600A1
; GENERAL INFORMATION:
; APPLICANT: BEDIAN, VAHE
; APPLICANT: GLADUE, RONALD P.
; APPLICANT: CORVALAN, JOSE
; APPLICANT: JIA, XIAO-CHI
; APPLICANT: FENG, XIAO
; TITLE OF INVENTION: ANTIBODIES TO CD40
; FILE REFERENCE: AEX-PF/3 US
; CURRENT APPLICATION NUMBER: US/11/211,917
; CURRENT FILING DATE: 2005-08-25
; PRIOR APPLICATION NUMBER: US/10/292,088
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: 60/348,980
; PRIOR FILING DATE: 2001-11-09
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 110
; LENGTH: 122
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-211-917-110

Query Match          78.5%; Score 527.5; DB 10; Length 122;
Best Local Similarity 79.7%; Pred. No. 2.9e-41;
Matches 102; Conservative 7; Mismatches 10; Indels 9; Gaps 2;

QY 1 QVQLVQSGAEVKKPKGASVKVSKASGYTFTSYDINWVRQATCGQGLEWGWINPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPKGASVKVSKASGYTFTGYTHWVRQAPGQGLEWGWINPNSGGTNY 60

QY 61 AQKFGQRTVMTTRDTSISTAYMELSLRSEDTAIYYCVRGF---GVSYNDYYGMDVWGQ 117
Db 61 AQKFGQRTVMTTRDTSISTAYMELSLRSLRSDDTAVYYCARGYCTNGVCYFFDY-----WGQ 114

QY 118 GTTVTVSS 125
Db 115 GTLVTVSS 122

RESULT 13
US-11-054-515-1896
; Sequence 1896, Application US/11054515
; Publication No. US2005025532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
```

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; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1896
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1896

Query Match      78.1%; Score 524.5; DB 11; Length 245;
Best Local Similarity 81.7%; Pred. No. 1.1e-40;
Matches 103; Conservative 6; Mismatches 10; Indels 7; Gaps 2;

QY 1 QVQLVQSGAEVKKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPGASVKVSKASGYTFTSYAMHWVRQAPGQRLWGWINAGNGNTKY 60

QY 61 AQKFGQGVMTTRDTSISTAYMELSLRSEDTAIYYCVR-GFGYSYNYDYYYGMDVWGQGT 119
Db 61 SQKFGQGVMTTRDTSASTAYMELSLRSEDTAIYYCAREGPG-----YYGMDVWGQGT 114

QY 120 TTVTSS 125
Db 115 MVTVSS 120

RESULT 14
US-11-266-444-1896
; Sequence 1896, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulat
; FILE REFERENCE: PF523PDI
; CURRENT APPLICATION NUMBER: US/11/266,444
; CURRENT FILING DATE: 2005-11-04
; PRIOR APPLICATION NUMBER: 09/880,746
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1896

Query Match      78.1%; Score 524.5; DB 11; Length 245;
Best Local Similarity 81.7%; Pred. No. 1.1e-40;
Matches 103; Conservative 6; Mismatches 10; Indels 7; Gaps 2;

QY 1 QVQLVQSGAEVKKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPGASVKVSKASGYTFTSYAMHWVRQAPGQRLWGWINAGNGNTKY 60

QY 61 AQKFGQGVMTTRDTSISTAYMELSLRSEDTAIYYCVR-GFGYSYNYDYYYGMDVWGQGT 119
Db 61 SQKFGQGVMTTRDTSASTAYMELSLRSEDTAIYYCAREGPG-----YYGMDVWGQGT 114

QY 120 TTVTSS 125
Db 115 MVTVSS 120

RESULT 15
US-11-054-515-1407
; Sequence 1407, Application US/11054515
; Publication No. US2005025532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1407
; LENGTH: 255
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1407

Query Match      78.0%; Score 524; DB 11; Length 255;
Best Local Similarity 76.9%; Pred. No. 1.2e-40;
Matches 103; Conservative 6; Mismatches 11; Indels 14; Gaps 2;

QY 1 QVQLVQSGAEVKKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPGASVKVSKASGYTFTDYLYLHWVRQAPGQGLEWMGWINPNSGGTNY 60

QY 61 AQKFGQGVMTTRDTSISTAYMELSLRSEDTAIYYCVRFGVGSYNYDY-----YYG 111
Db 61 AQMFGQGVMTTRDTSISTASMELSLRSDDTAVIYCAR-----VNADYDILTGYPRDYG 115

QY 112 MDVMGQGVTTVTSS 125
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; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1896
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1896

Query Match      78.1%; Score 524.5; DB 11; Length 245;
Best Local Similarity 81.7%; Pred. No. 1.1e-40;
Matches 103; Conservative 6; Mismatches 10; Indels 7; Gaps 2;

QY 1 QVQLVQSGAEVKKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPGASVKVSKASGYTFTSYAMHWVRQAPGQRLWGWINAGNGNTKY 60

QY 61 AQKFGQGVMTTRDTSISTAYMELSLRSEDTAIYYCVR-GFGYSYNYDYYYGMDVWGQGT 119
Db 61 SQKFGQGVMTTRDTSASTAYMELSLRSEDTAIYYCAREGPG-----YYGMDVWGQGT 114

QY 120 TTVTSS 125
Db 115 MVTVSS 120

RESULT 14
US-11-266-444-1896
; Sequence 1896, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulat
; FILE REFERENCE: PF523PDI
; CURRENT APPLICATION NUMBER: US/11/266,444
; CURRENT FILING DATE: 2005-11-04
; PRIOR APPLICATION NUMBER: 09/880,746
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1896

Query Match      78.0%; Score 524; DB 11; Length 255;
Best Local Similarity 76.9%; Pred. No. 1.2e-40;
Matches 103; Conservative 6; Mismatches 11; Indels 14; Gaps 2;

QY 1 QVQLVQSGAEVKKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
Db 1 QVQLVQSGAEVKKPGASVKVSKASGYTFTDYLYLHWVRQAPGQGLEWMGWINPNSGGTNY 60

QY 61 AQKFGQGVMTTRDTSISTAYMELSLRSEDTAIYYCVRFGVGSYNYDY-----YYG 111
Db 61 AQMFGQGVMTTRDTSISTASMELSLRSDDTAVIYCAR-----VNADYDILTGYPRDYG 115

QY 112 MDVMGQGVTTVTSS 125
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Db 116 MDVWGKGTWTVSS 129

Search completed: May 15, 2006, 17:25:50
Job time : 20.8498 secs

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Query Match 76.5%; Score 514; DB 2; Length 129;
Best Local Similarity 78.3%; Pred. No. 9.3e-39;
Matches 101; Conservative 8; Mismatches 16; Indels 4; Gaps 2;

QY 1 QVQLVQSGAEVKKPKASVKVCKASGYTFTSDINWVRQATCGQLEWGMWNPNSGNTDY 60
DB 1 QVQLVQSGAEVKKPKASVKVCKASGYTFTSDINWVRQATCGQLEWGMWNPNSGNTDY 60
QY 61 AQKFGQGRVTMTDTSISTAYMELSLRSRSDTAIYYCVR-GFGYSYND---YYGMDVWG 116
DB 61 AQKFGQGRVTMTDTSISTAYMELSLRSRSDTAIYYCVR-GFGYSYND---YYGMDVWG 116
QY 117 QGTVTVTSS 125
DB 121 KGTVTVTSS 129

RESULT 7
S49530
anti-Sm antibody VH chain (VH1/DK1 or DM1/JH4b) - human
C:Species: Homo sapiens (man)
C:Date: 01-Feb-1995 #sequence_revision 12-May-1995 #text_change 23-Jul-1999
C:Accession: S49530
R:Mahmoudi, M.; Edwards, J.; Cairns, E.; Bell, D.
submitted to the EMBL Data Library, October 1994
A:Description: Molecular characterization of natural human anti-Sm autoantibodies.
A:Reference number: S48797
A:Accession: S49530
A>Status: Preliminary
A:Molecule type: mRNA
A:Residues: 1-135 <MAH>
A:Cross-references: UNIPARC:UPI00001166PF; EMBL:Z46348; NID:G560839; PIDN:CAA86467.1; PI
C:Superfamily: immunoglobulin V region; immunoglobulin homology
F:34-117/Domain: immunoglobulin homology <IMM>

Query Match 76.1%; Score 511.5; DB 2; Length 135;
Best Local Similarity 79.4%; Pred. No. 1.6e-38;
Matches 100; Conservative 6; Mismatches 9; Indels 11; Gaps 2;

QY 1 QVQLVQSGAEVKKPKASVKVCKASGYTFTSDINWVRQATCGQLEWGMWNPNSGNTDY 60
DB 20 QVQLVQSGAEVKKPKASVKVCKASGYTFTGYTHWVRQAPQGQLEWGMWNPNSGGTNY 79
QY 61 AQKFGQGRVTMTDTSISTAYMELSLRSRSDTAIYYCVRG-FGYSYNDYYGMDVWGQGT 119
DB 80 AQKFGQGRVTMTDTSISTAYMELSLRSRSDTAIYYCARARTGNY-----WGQGT 129

QY 120 TTVTSS 125
DB 130 LVTSS 135

RESULT 8
S31596
Ig heavy chain V region - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 22-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 23-Jul-1999
C:Accession: S31596
R:Cuisinier, A.M.; Gauthier, L.; Boubli, L.; Fougereau, M.; Tonnelles, C.
submitted to the EMBL Data Library, June 1992
A:Description: Mechanisms that generate human immunoglobulin diversity operate from the
A:Reference number: S31585
A:Accession: S31596
A>Status: Preliminary
A:Molecule type: mRNA
A:Residues: 1-132 <CUI>
A:Cross-references: UNIPARC:UPI0000116454; EMBL:Z14166; NID:G30996; PIDN:CAA78535.1; PID
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotetramer; immunoglobulin
F:34-117/Domain: immunoglobulin homology <IMM>

Query Match 76.0%; Score 510.5; DB 2; Length 132;

Best Local Similarity 79.2%; Pred. No. 1.9e-38;
Matches 99; Conservative 6; Mismatches 7; Indels 13; Gaps 1;

QY 1 QVQLVQSGAEVKKPKASVKVCKASGYTFTSDINWVRQATCGQLEWGMWNPNSGNTDY 60
DB 20 QVQLVQSGAEVKKPKASVKVCKASGYTFTSDINWVRQATCGQLEWGMWNPNSGNTGY 79
QY 61 AQKFGQGRVTMTDTSISTAYMELSLRSRSDTAIYYCVRGFGYSYNDYYGMDVWGQGT 120
DB 80 AQKFGQGRVTMTDTSISTAYMELSLRSRSDTAIYYLAKA-----PANGQGT 126
QY 121 VTVSS 125
DB 127 VTVSS 131

RESULT 9
S26792
Ig heavy chain V region - human
C:Species: Homo sapiens (man)
C:Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 20-Jun-2000
C:Accession: S26792
R:Mortari, F.; Newton, J.A.; Wang, J.Y.; Schroeder Jr., H.W.
Eur. J. Immunol. 22, 241-245, 1992
A:Title: The human cord blood antibody repertoire. Frequent usage of the V(H)7 gene fam
A:Reference number: S26786; MUID:92111632; PMID:1730251
A:Accession: S26792
A>Status: Preliminary
A:Molecule type: mRNA
A:Residues: 1-131 <MOR>
A:Cross-references: UNIPARC:UPI0000115FC3; EMBL:X61012; NID:G32804; PIDN:CAA43346.1; PI
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotetramer; immunoglobulin
F:15-98/Domain: immunoglobulin homology <IMM>

Query Match 74.4%; Score 500; DB 2; Length 131;
Best Local Similarity 72.5%; Pred. No. 1.6e-37;
Matches 95; Conservative 13; Mismatches 17; Indels 6; Gaps 2;

QY 1 QVQLVQSGAEVKKPKASVKVCKASGYTFTSDINWVRQATCGQLEWGMWNPNSGNTDY 60
DB 1 QVQLVQSGAEVKKPKASVKVCKASGYTFTSDINWVRQAPQGQLEWGMWNPNSGNTGY 60
QY 61 AQKFGQGRVTMTDTSISTAYMELSLRSRSDTAIYYCVR-GFGYSY-----NYDYYGMDV 114
DB 61 AQKFGQGRVTMTDTSISTAYMELSLRSRSDTAIYQSSLKAEADTAIYYCARDSSRGYSYDFWSGYFYIYMDV 120
QY 115 WQGTVTVTSS 125
DB 121 WQGTVTVTSS 131

RESULT 10
PH0961
Ig heavy chain V region (G6+ T-L33) - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 16-Aug-1996
C:Accession: PH0961
R:Martin, T.; Duffy, S.F.; Carson, D.A.; Kippes, T.J.
J. Exp. Med. 175, 983-991, 1992
A:Title: Evidence for somatic selection of natural autoantibodies.
A:Reference number: PH0952; MUID:92202880; PMID:1552291
A:Accession: PH0961
A>Status: nucleic acid sequence not shown
A:Molecule type: DNA
A:Residues: 1-119 <MAR>
A:Cross-references: UNIPARC:UPI0000176CES
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotetramer; immunoglobulin
F:1-30/Region: framework 1
F:15-98/Domain: immunoglobulin homology <IMM>
F:31-35/Region: complementarity-determining 1
F:36-50/Region: framework 2

F;51-67/Region: complementarity-determining 2
F;68-98/Region: framework 3
F;99-107/Region: complementarity-determining 3

	Query Match	74.3%	Score 499	DB 2	Length 119
	Best Local Similarity	79.2%	Pred. No. 1.8e-3		
	Matches 99	Conservative 6	Mismatches 14	Indels 6	Gaps 1
Qy	1	QVLVQSGAEVKKPGASVKYSCKASGTYFTSYDINWVRQATGQGLEWMGWINPNSGNTDY	60		
Db	1	QVLVQSGAEVKKPGSSVKYSCKASGDTFSSYAISSWRQAPGQGLEWMGGIPIFGTANY	60		
Qy	61	AQKFGQGVITWTRDTSISTAYWELSSLRSEDTAIYYCVRGFGYSYNYDYVYGGDWVGQOTT	120		
Db	61	AQKFGQGVITADSTSTAYWELSSLRSEDTAVYYCARG-----YVYGGDWVGQOTT	114		

RESULT 11

PH1670

Ig heavy chain V region (clone 2A12) - human (fragment)

C/Species: Homo sapiens (man)

C/Date: 24-Feb-1994 #sequence_revision 24-Feb-1994 #text_change 16-Aug-1996

C/Accession: PH1670

R/Hallson, J.L.; Karr, N.S.; Opplinger, I.R.; Mannik, M.; Sasso, E.H.

J. Exp. Med. 178, 331-336, 1993

A/Title: The structural basis of germline-encoded VH3 immunoglobulin binding to staphylococcal protein A

A/Reference number: PH1642; MUID:93301610; PMID:8315388

A/Accession: PH1670

A/Molecule type: mRNA

A/Residues: 1-110 <HL>

A/Cross-references: UNIPARC:UPI0000176BEB

A/Experimental source: B cell

C/Superfamily: immunoglobulin V region; immunoglobulin homology

C/Keywords: heterotetramer; immunoglobulin

F:7-90/Domain: immunoglobulin homology <IMM>

	Query Match	73.9%	Score 496.5;	DB 2;	Length 110;
	Best Local Similarity	82.1%	Pred. No. 2.8e-37;		
	Matches 96;	Conservative	6;	Mismatches 8;	Indels 7; Gaps 2;
Qy	9	AEVKKPGASVKSCAKGYYTFTSYDINNVROATQGGLEWMGWINPNSGNTYIAKPKQGRV	68		
Db	1	AEVKKPGASVKSCAKGYYTFTSYDINNVROATQGGLEWMGWANNNNGTYIAKPKQGRV	60		
Qy	69	TMTRDTSTIAYMELSLRSRSDTAIYYCVRGFGYSYNDYYGDMVWGQYTTVTVSS	125		
Db	61	TMTRNTSTIAYMELSLRSRSDTAIVYTCARG-GKGGBE-----DIMWGQTLVTVSS	110		

RESULT 12

S26918

Ig heavy chain V region (DP-15) - human (fragment)

C/Species: Homo sapiens (man)

C/Date: 22-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 23-Jul-1999

C/Accession: S26918

R/Tomlinson, I.M.; Walter, G.; Marks, J.D.; Llewelyn, M.B.; Winter, G.

J. Mol. Biol. 227, 776-798, 1992

A/Title: The repertoire of human germline V(H) sequences reveals about fifty groups of

A/Reference number: S26885; MUID:93021117; PMID:1404388

A/Accession: S26918

A/Status: preliminary

A/Molecule type: DNA

A/Residues: 1-98 <TOM>

A/Cross-references: UNIPARC:UPI0000031F36; EMBL:Z12317; NTD:G32857; PIDN:CAA78187.1; PIR

A/C/Superfamily: immunoglobulin V region; immunoglobulin homology

C/Keywords: heterotetramer; immunoglobulin

F:15-98/Domain: immunoglobulin homology <IMM>

Query Match 73.8%; Score 496; DB 2; Length 98;

```

Best Local Similarity 94.9%; Pred. No. 2.8e-37;
Matches 93; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QVOLVQSGAEVKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
Db 1 QVOLVQSGAEVKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTGY 60

Qy 61 AQKPFQGRVTWTRDTSISTAYMELSSLRSEDTAIIYVCVR 98
Db 61 AQKPFQGRVTWTRDTSISTAYMELSSLRSEDTAVIYCAR 98

RESULT 13
PH0954
Ig heavy chain V region (G6+ CILL-HEN) - human (fragment)
C/Species: Homo sapiens (man)
C/Date: 17-Apr-1993 #sequence 17-Apr-1993 #text_change 16-Aug-1996
C/Accession: PH0954
E/Martin, T.; Duffy, S.F.; Carson, D.A.; Kipps, T.J.
J. Exp. Med. 175, 983-991, 1992
A/Title: Evidence for somatic selection of natural autoantibodies.
A/Reference number: PH0952; MUID:92202880; PMID:1552291

```

Query Match	73.7%;	Score 495.5;	DB 2;	Length 132;
Best Local Similarity	75.9%;	Pred. No. 4.2e-37;		
Matches 101;	Conservative 6;	Mismatches 17;	Indels 9;	Gaps 2;
Qy 1	QVQLVQSGAEVKPGASVKVSCKASGVTFTSYDINVRQATGCGLEWMGWINPNNSGNTDY 60			
Db 1	QVQLVQSGAEVKPGSSVKVSCKASGDTFSYALISWRQAPGQGLEWMGGIIPIFGTANY 60			
Qy 61	AQKPGQGVTTTRDTISITAYMELSSLRSEDTAIYICVRGP-----GYSYNDYITYGM 112			
Db 61	AQKPGQGVTTTADSTSTAYMELSSLRSEDTAVYICARPHASIDDFWSGYYPNT-YYVGM 119			
Qy 113	DMVGQGVTTVTVSS 125			
Db 120	DMVGQGVTTVTVSS 132			

RESULT 14
S23623
Ig heavy chain V region precursor - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 23-Jul-1999
C:Accession: S23623
R:Olée, T.; Lu, E.W.; Soto-Gil, R.W.; Deftos, M.; Kozin, F.; Carson, D.A.;
J. Exp. Med. 175, 831-842, 1992
A:Title: Genetic analysis of self-associating immunoglobulin G rheumatoid factors from t
A:Reference number: S23623; MUID:92156804; PMID:1740665
A:Accession: S23623
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-171 <OLE>
A:Cross-references: UNIPARC:UPI0000115F93; EMBL:X59702; NID:g32010; PIDN:CAA42223.1; PIR
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotetramer; immunoglobulin
R:34-117/Dmain: immunoglobulin homology <IMM>

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```
Query Match      73.7%; Score 495.5; DB 2; Length 171;
Best Local Similarity 70.9%; Pred. No. 5.5e-37;
Matches 95; Conservative 9; Mismatches 13; Indels 17; Gaps 2;

Qy 1 QVQLVQSGAEVKPKGASVKSCASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 60
Db 20 QVQLVQSGAEVKPKGASVKSCASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDY 79
Qy 61 AQKFGQGRVTMTSDTSTAYMELSLRSEDTAIYCVRGFGYSYNDYYYG----- 111
Db 80 GQKFGQGRVTMTSDTSTAYMELSLRSEDTAIYCVRGFGYSYNDYYYG----- 111
Qy 112 MDVWGQGTITVTVSS 125
Db 132 FDIWGQGTITVTVSS 145

RESULT 15
PHI666
Ig heavy chain V region (clone 6C9) - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 24-Feb-1994 #sequence_revision 24-Feb-1994 #text_change 16-Aug-1996
C:Accession: PHI666
R: Hillson, J.L.; Karr, N.S.; Oppiger, I.R.; Mannik, M.; Sasso, E.H.
J. Exp. Med. 178, 331-336, 1993
A: Title: The structural basis of germline-encoded VH3 immunoglobulin binding to staphylo-
A: Reference number: PHI642; MUID: 93301610; PMID: 8315388
A: Accession: PHI666
A: Molecule type: mRNA
A: Residues: 1-118 <HIL>
A: Cross-references: UNIPARC:UPI0000176BE7
A: Experimental source: B cell
C: Superfamily: immunoglobulin V region; immunoglobulin homology
C: Keywords: heterotetramer; immunoglobulin
P: 7-90/Domain: immunoglobulin homology <IMM>

Query Match      73.6%; Score 494.5; DB 2; Length 118;
Best Local Similarity 80.5%; Pred. No. 4.5e-37;
Matches 95; Conservative 6; Mismatches 16; Indels 1; Gaps 1;

Qy 9 AEVKKPGASVKVSKASGYTFTSYDINWVRQATGQGLEWMGWINPNSGNTDYAQKFGGRV 68
Db 1 AEVKKPGASVKVSKASGYTFTSYAMHWVRQAPGQGLEWMGWINAGNGNTKYAQKFGGRV 60
Qy 69 TMTSDTSTAYMELSLRSEDTAIYCVR-GFGYSYNDYYYGMDVWGQGTITVTVSS 125
Db 61 TITSDTSTAYMELSLRSEDTAIYCVARVTLGGIKFYFYGGMDVWGQGTITVTVSS 118
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Search completed: May 15, 2006, 17:04:50
Job time : 26.2146 secs

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Result No.	Score	Query			ID	Description
		Match	Length	DB		
1	497.5	74.0	159	2	Q96QS0 HUMAN	Q96QS0 homo sapien
2	494	73.5	119	2	Q9UL94 HUMAN	Q9UL94 homo sapien
3	491	73.5	125	2	Q9UL95 HUMAN	Q9UL95 homo sapien
4	494	73.1	244	2	Q65ZC8 HUMAN	Q65ZC8 homo sapien
5	488.5	72.7	147	1	HVIC HUMAN	P01744 homo sapien
6	481.5	71.7	124	2	Q9UL92 HUMAN	Q9UL92 homo sapien
7	478.5	71.2	498	2	Q6N041 HUMAN	Q6N041 homo sapien
8	474	70.5	497	2	Q8WY24 HUMAN	Q8WY24 homo sapien
9	470.5	70.0	500	2	Q8BRV0 HUMAN	Q8BRV0 homo sapien
10	457.5	68.1	518	2	Q6N030 HUMAN	Q6N030 homo sapien
11	455	67.7	119	2	Q9GY22 MOUSE	Q9GY22 mus musculus
12	446	66.4	500	2	Q6N091 HUMAN	Q6N091 homo sapien
13	441	65.6	117	1	HVIG HUMAN	P23083 homo sapien
14	440	65.5	117	1	HV1B HUMAN	P01743 homo sapien
15	438	65	480	2	Q6P089 HUMAN	Q6P089 homo sapien
16	436	64.9	458	2	Q5BJ22 RAT	Q5BJ22 rattus norv
17	433.5	64.5	469	2	Q7Z7P5 HUMAN	Q7Z7P5 homo sapien
18	430	64.0	481	2	Q91WT1 MOUSE	Q91WT1 mus musculus
19	429.5	63.9	116	2	Q9UL89 HUMAN	Q9UL89 homo sapien
20	425.5	63.3	145	2	Q924R4 MOUSE	Q924R4 mus musculus
21	425	63.2	519	2	Q5EBM2 HUMAN	Q5EBM2 homo sapien
22	424.5	63.2	617	2	Q4KML5 MOUSE	Q4KML5 mus musculus
23	422	62.8	147	2	Q925S3 MOUSE	Q925S3 mus musculus
24	420	62.5	157	2	Q95978 HUMAN	Q95978 homo sapien
25	419.5	62.4	475	2	Q6N095 HUMAN	Q6N095 homo sapien
26	419	62.4	470	2	Q7TMK1 MOUSE	Q7TMK1 mus musculus
27	418.5	62.3	118	1	HV51 MOUSE	P06330 mus musculus
28	418	62.2	117	2	Q9QXE9 MOUSE	Q9QXE9 mus musculus
29	417	62.1	472	2	Q6PJA7 MOUSE	Q6PJA7 mus musculus
30	417	62.1	473	2	Q9D8L4 MOUSE	Q9D8L4 mus musculus
31	416.5	62.0	463	2	Q99LC4 MOUSE	Q99LC4 mus musculus

```
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=98277139; PubMed=9614934; DOI=10.1006/clin.1998.4531;
RA Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,
RA Young D.C.;
RT "Myosin-reactive autoantibodies in rheumatic carditis and normal
  fetus.";
RL Clin. Immunol. Immunopathol. 87:184-192(1998).
DR EMBL; AF035020; AAD56256.1; -; mRNA.
DR HSSP; P01751; INQB.
DR Ensembl; ENSG00000130076; Homo sapiens.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003596; Ig_v.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
FT NON_TER 1_1
FT NON_TER 119
SQ SEQUENCE 119 AA; 13205 MW; 13B64F5345F4A16E CRC64;

  Query Match      73.5%; Score 494; DB 2; Length 119;
  Best Local Similarity 76.0%; Pred. No. 2,8e-41;
  Matches 95; Conservative 10; Mismatches 14; Indels 6; Gaps 1;

QY 1 QVQLVQSGAEVKPKPGASVKVCKASGYTFTSYDINWVRQATCGQGLEWMGWINPNSGNTDY 60
   :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 EVQLVESGAELVKPKPGASVKVCKASGYTFTGYTHWVRQAPGQGLEWMGWINPNSWTNY 60
   :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 61 AOKFQGRVTMTDTSISTAYMELSLRSEDTAIYVCVRFSGYSNYDYGVMDVWGQGT 120
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 AOKFQGRVTMTDTSISTAYMELSLRSDDTAVYVCARGGRLGWF-----DPWQGT 114
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 121 VTVSS 125
Db 115 VTVSS 119
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 3
ID Q9UL95 HUMAN PRELIMINARY; PRT; 125 AA.
AC Q9UL95;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Myosin-reactive immunoglobulin heavy chain variable region
  (Fragment).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=98277139; PubMed=9614934; DOI=10.1006/clin.1998.4531;
RA Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,
RA Young D.C.;
RT "Myosin-reactive autoantibodies in rheumatic carditis and normal
  fetus.";
RL Clin. Immunol. Immunopathol. 87:184-192(1998).
DR EMBL; AF035019; AAD56255.1; -; mRNA.
DR HSSP; P01751; INQB.
DR Ensembl; ENSG00000130076; Homo sapiens.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003596; Ig_v.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
FT NON_TER 1_1
FT NON_TER 125
SQ SEQUENCE 125 AA; 13516 MW; 0D3CD5C23248EAC CRC64;

  Query Match      73.5%; Score 494; DB 2; Length 125;
  Best Local Similarity 76.0%; Pred. No. 2,8e-41;
  Matches 95; Conservative 10; Mismatches 14; Indels 6; Gaps 1;

QY 1 QVQLVQSGAEVKPKPGASVKVCKASGYTFTSYDINWVRQATCGQGLEWMGWINPNSGNTDY 60
   :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 EVQLVESGAELVKPKPGASVKVCKASGYTFTGYTHWVRQAPGQGLEWMGWINPNSWTNY 60
   :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 61 AOKFQGRVTMTDTSISTAYMELSLRSEDTAIYVCVRFSGYSNYDYGVMDVWGQGT 120
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 AOKFQGRVTMTDTSISTAYMELSLRSDDTAVYVCARGGRLGWF-----DPWQGT 114
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 121 VTVSS 125
Db 115 VTVSS 119
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 3
ID Q9UL95 HUMAN PRELIMINARY; PRT; 125 AA.
AC Q9UL95;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Myosin-reactive immunoglobulin heavy chain variable region
  (Fragment).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=98277139; PubMed=9614934; DOI=10.1006/clin.1998.4531;
RA Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,
RA Young D.C.;
RT "Myosin-reactive autoantibodies in rheumatic carditis and normal
  fetus.";
RL Clin. Immunol. Immunopathol. 87:184-192(1998).
DR EMBL; AF035019; AAD56255.1; -; mRNA.
DR HSSP; P01751; INQB.
DR Ensembl; ENSG00000130076; Homo sapiens.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003596; Ig_v.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
FT NON_TER 1_1
FT NON_TER 125
SQ SEQUENCE 125 AA; 13516 MW; 0D3CD5C23248EAC CRC64;

  Query Match      73.5%; Score 494; DB 2; Length 125;
  Best Local Similarity 76.0%; Pred. No. 2,8e-41;
  Matches 95; Conservative 10; Mismatches 14; Indels 6; Gaps 1;

QY 1 QVQLVQSGAEVKPKPGASVKVCKASGYTFTSYDINWVRQATCGQGLEWMGWINPNSGNTDY 60
   :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 EVQLVESGAELVKPKPGASVKVCKASGYTFTGYTHWVRQAPGQGLEWMGWINPNSGNTY 60
   :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 61 AOKFQGRVTMTDTSISTAYMELSLRSEDTAIYVCVRFSGYSNYDYGVMDVWGQGT 120
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 AOKFQGRVTMTDTSISTAYMELSLRSDDTAVYVCARGGRLGWF-----DPWQGT 114
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 121 VTVSS 125
Db 115 VTVSS 119
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 4
ID Q65ZC8 HUMAN PRELIMINARY; PRT; 244 AA.
AC Q65ZC8;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Single-chain Fv (Fragment).
GN Name=scFv;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=97362799; PubMed=9219263; DOI=10.1038/nbt0797-629;
RA Kontermann R.E., Wing M.G., Winter G.;
RT "Complement recruitment using bispecific diabodies.";
RL Nat. Biotechnol. 15:629-631(1997).
DR EMBL; Y13057; CAA73500.1; -; mRNA.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003596; Ig_v.
DR SMART; SM00409; IG; 2.
DR SMART; SM00406; IGV; 2.
DR PROSITE; PS50835; IG_LIKE; 2.
FT NON_TER 1_1
FT NON_TER 244
FT NON_TER 244
SQ SEQUENCE 244 AA; 26127 MW; 4B1F17868338F2BF CRC64;

  Query Match      73.1%; Score 491; DB 2; Length 244;
  Best Local Similarity 75.4%; Pred. No. 1.3e-40;
  Matches 95; Conservative 13; Mismatches 12; Indels 6; Gaps 2;

QY 1 QVQLVQSGAEVKPKPGASVKVCKASGYTFTSYDINWVRQATCGQGLEWMGWINPNSGNTDY 60
   :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 QVQLVQSGAEVKPKPGDSVKVCKASGYTFTSDYHMHVVRQAPGQGLEWMGWIDPNNGDFRF 60
   :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 61 AOKFQGRVTMTDTSISTAYMELSLRSEDTAIYVCVR-GRGYSNYDYGVMDVWGQGT 119
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 AOKFQGRVTMTDTSISTAYMEVSLRSDDTAVYVCAREGTGSA-----IYGMVWGQGT 115
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 120 VTVSS 125
Db 116 VTVSS 121
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 5
ID HVIC HUMAN STANDARD; PRT; 147 AA.
AC P01744;
DT 21-JUL-1986 (Rel. 01, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Ig heavy chain V-I region ND precursor (Fragments).
OS Homo sapiens (Human).
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```
Best Local Similarity 76.0%; Pred. No. 3e-41;
Matches 95; Conservative 9; Mismatches 21; Indels 0; Gaps 0;

QY 1 QVQLVQSGAEVKPKPGASVKVCKASGYTFTSYDINWVRQATCGQGLEWMGWINPNSGNTDY 60
   :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 EVQLVESGAELVKPKPGASVKVCKASGYTFTGYTHWVRQAPGQGLEWMGWINPNSGGTNY 60
   :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 61 AOKFQGRVTMTDTSISTAYMELSLRSEDTAIYVCVRFSGYSNYDYGVMDVWGQGT 120
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 AOKFQGRVTMTDTSISTAYMELSLRSDDTAVYVCARSGGGRIAAAGDAFDWGGQTM 120
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 121 VTVSS 125
Db 121 VTVSS 125
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 4
ID Q65ZC8 HUMAN PRELIMINARY; PRT; 244 AA.
AC Q65ZC8;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Single-chain Fv (Fragment).
GN Name=scFv;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=97362799; PubMed=9219263; DOI=10.1038/nbt0797-629;
RA Kontermann R.E., Wing M.G., Winter G.;
RT "Complement recruitment using bispecific diabodies.";
RL Nat. Biotechnol. 15:629-631(1997).
DR EMBL; Y13057; CAA73500.1; -; mRNA.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003596; Ig_v.
DR SMART; SM00409; IG; 2.
DR SMART; SM00406; IGV; 2.
DR PROSITE; PS50835; IG_LIKE; 2.
FT NON_TER 1_1
FT NON_TER 244
FT NON_TER 244
SQ SEQUENCE 244 AA; 26127 MW; 4B1F17868338F2BF CRC64;

  Query Match      73.1%; Score 491; DB 2; Length 244;
  Best Local Similarity 75.4%; Pred. No. 1.3e-40;
  Matches 95; Conservative 13; Mismatches 12; Indels 6; Gaps 2;

QY 1 QVQLVQSGAEVKPKPGASVKVCKASGYTFTSYDINWVRQATCGQGLEWMGWINPNSGNTDY 60
   :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 QVQLVQSGAEVKPKPGDSVKVCKASGYTFTSDYHMHVVRQAPGQGLEWMGWIDPNNGDFRF 60
   :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 61 AOKFQGRVTMTDTSISTAYMELSLRSEDTAIYVCVR-GRGYSNYDYGVMDVWGQGT 119
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 AOKFQGRVTMTDTSISTAYMEVSLRSDDTAVYVCAREGTGSA-----IYGMVWGQGT 115
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 120 VTVSS 125
Db 116 VTVSS 121
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 5
ID HVIC HUMAN STANDARD; PRT; 147 AA.
AC P01744;
DT 21-JUL-1986 (Rel. 01, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Ig heavy chain V-I region ND precursor (Fragments).
OS Homo sapiens (Human).
```



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DR Pfam; PF07654; Cl-set; 2.
DR SMART; SM00409; IG; 4.
DR SMART; SM00407; IGCl; 3.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG LIKE; 4.
DR PROSITE; PS00290; IG_MHC; UNKNOWN_2.
KW Hypothetical protein.
FT NON_TER
SQ SEQUENCE 498 AA; 54125 MW; 40B3208A84E03B46 CRC64;

Query Match 71.2%; Score 478.5; DB 2; Length 498;
Best Local Similarity 74.6%; Pred. No. 5e-39;
Matches 94; Conservative 11; Mismatches 18; Indels 3; Gaps 2;

QY 1 QVQLVQSGAEVKKPKASVKVCKASGYTFTSYDINWVRQATGQGLEWMGWINPNNGNTDY 60
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
35 QVQLVQSGADVKKPKASVKVCKASGYTFTSYDINWVRQAPCGPEWMGMINPRDGSTKY 94
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 61 AOKFGQRTMTDTSISTAYMELSLRSEDTAIYYCVR-GFGYSNYDYDYYGMDVWGQGT 119
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
95 AORFGQRTMTDTSISTAYMELSLRSEDTAIYYCVR-GFGYSNYDYDYYGMDVWGQGT 152
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 120 TTVTVSS 125
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
153 LVTVSS 158

RESULT 8
Q9BRV0 HUMAN PRELIMINARY; PRT; 497 AA.
AC Q8WY24;
DT 01-MAR-2002 (TREMBlrel. 20, Created)
DT 01-MAR-2002 (TREMBlrel. 20, Last sequence update)
DT 01-MAR-2004 (TREMBlrel. 26, Last annotation update)
DE SMC66 protein.
OS Homo sapiens (Human)
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RA Zheng S., Shao X., Cao J., Geng L., Fang Y., Dong Q.;
RL Submitted (JUN-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF283666; AAL36987.1; -; mRNA.
DR HSSP; P01876; 10W0.
DR SMR; Q8WY24; 267-475.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003597; IG cl.
DR InterPro; IPR003006; IG_MHC.
DR InterPro; IPR003596; IG_v.
DR Pfam; PF07654; Cl-set; 2.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG LIKE; 4.
DR PROSITE; PS00290; IG_MHC; UNKNOWN_1.
KW Immunoglobulin domain.
SQ SEQUENCE 497 AA; 53666 MW; F24D08DFA5A663E5 CRC64;

Query Match 70.5%; Score 474; DB 2; Length 497;
Best Local Similarity 70.0%; Pred. No. 1.4e-38;
Matches 91; Conservative 13; Mismatches 16; Indels 10; Gaps 2;

QY 1 QVQLVQSGAEVKKPKASVKVCKASGYTFTSYDINWVRQATGQGLEWMGWINPNNGNTDY 60
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
20 QBLQSGAEVTKPKASVKVCKASGYTFIAYDINWVRQAPCGLEWMGNPQTGNTFP 79
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 61 AOKFGQRTMTDTSISTAYMELSLRSEDTAIYYCVR-----GFGYSNYDYDYYGMDVW 115
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
80 AOKFGQRTMTDTSINTAYMVLSTLSTEDSAIYFCARGLRGGRGFGYNW-----FDPW 134
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 116 GQGTITVTVSS 125
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
135 GHTITVTVSS 144
```

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RESULT 9
Q9BRV0 HUMAN PRELIMINARY; PRT; 500 AA.
AC Q9BRV0;
DT 01-JUN-2001 (TREMBlrel. 17, Created)
DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
DT 01-MAR-2004 (TREMBlrel. 26, Last annotation update)
DE MGC27165 protein.
OS Homo sapiens (Human)
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RA Strauberg R.L., Feingold E.A., Grouse L.H., Derge J.G.;
RL MEDLINE=22389257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heish F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Uedin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.N.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalus D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
and mouse cDNA sequences";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RA Strauberg R.;
RL Submitted (APR-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC005951; AA05951.1; -; mRNA.
DR HSSP; P01876; 10W0.
DR SMR; Q9BRV0; 25-300, 270-478.
DR Ensembl; ENSG00000130076; Homo sapiens.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003597; IG cl.
DR InterPro; IPR003006; IG_MHC.
DR InterPro; IPR003596; IG_v.
DR Pfam; PF07654; Cl-set; 2.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG LIKE; 4.
DR PROSITE; PS00290; IG_MHC; UNKNOWN_1.
KW Immunoglobulin domain; Repeat.
SQ SEQUENCE 500 AA; 54154 MW; 0A9BF43F2A3CC6D9 CRC64;

Query Match 70.0%; Score 470.5; DB 2; Length 500;
Best Local Similarity 71.9%; Pred. No. 3.1e-38;
Matches 92; Conservative 11; Mismatches 22; Indels 3; Gaps 2;

QY 1 QVQLVQSGAEVKKPKASVKVCKASGYTFTSYDINWVRQATGQGLEWMGWINPNNGNTDY 60
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
20 QVHLVQSGAEVSPGASVRSCKTSYGAFHTYSIIWVRQAPCGGLEWMGWSPPSDNTRF 79
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 61 AOKFGQRTMTDTSISTAYMELSLRSEDTAIYYCVRGF-GYS--YNYDYYGMDVWGQ 117
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
80 AKTQGRVTLTDTSTSTVYMLRSLRSDDTAVYVCARRYCSYSSCONDYITTYMDVWGK 139
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 118 GTTIVTVSS 125
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••

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SQ SEQUENCE 500 AA; 54160 MW; 3C423A17D65A41E4 CRC64;
Query Match 66.4%; Score 446; DB 2; Length 500;
Best Local Similarity 69.8%; Pred. No. 8.7e-36;
Matches 88; Conservative 12; Mismatches 22; Indels 4; Gaps 2;

QY 1 QVQLVQSGAEVKPKGASVKVSKASGYTFTSYDINWVRQATGQGLEWGWGWINPNSGNTDY 60
DB 38 QVQLVQSGAEVKPKGASVKVSKASGYTFTSDHSITLWLRQAPGQGLEWIGWISAYSGQTY 97

QY 61 AQKFGQRTVTRDTSISTAYMELSLRSEDIAIYVCVRFYGV-SYNYDYIYGVMDVWGQT 119
DB 98 AQNLQGRVTMTDTSISTAYMELSLRSDDTAVYYCAKQDSYTIIPNDAPH---IWGQT 154

QY 120 TVTVSS 125
DB 155 MVTVSS 160

RESULT 13
HVI1B HUMAN STANDARD; PRT; 117 AA.
AC P23083;
DT 01-NOV-1991 (Rel. 20, Created)
DT 01-NOV-1991 (Rel. 20, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Ig heavy chain V-I region V35 precursor.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN NUCLEOTIDE SEQUENCE.
RP MEDLINE=88296408; PubMed=2841108;
RA Matsuda F., Lee K.H., Nakai S., Sato T., Kodaira M., Zong S.Q.,
RA Ohno H., Fukuhara S., Honjo T.;
RT "Dispersed localization of D segments in the human immunoglobulin
RT heavy-chain locus.";
RL EMBO J. 7:1047-1051(1988).
RN [2]
RP NUCLEOTIDE SEQUENCE OF 20-116.
RX PubMed=7681398;
RA Mariette X., Tsapis A., Brouet J.C.;
RT "Nucleotide sequence analysis of the variable domains of four human
RT monoclonal IgM with an antibody activity to myelin-associated
RT glycoprotein.";
RL Eur. J. Immunol. 23:846-851(1993).
CC -1- SIMILARITY: Contains 1 Ig-like (immunoglobulin-like) domain.
CC This Swiss-Prot entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC -----
CC EMBL; X07448; -; NOT_ANNOTATED_CDS; Genomic_DNA.
CC PIR; S00476; HVHJ35.
CC HSSP; P01751; 1NOB.
CC SMR; P23083; 20-117.
CC Ensemble; ENSG00000130076; Homo sapiens.
CC GO; GO:0005576; C:extracellular region; NAS.
CC GO; GO:0003823; P:antigen binding; NAS.
CC GO; GO:0006955; P:immune response; NAS.
CC InterPro; IPR007110; Ig-like.
CC SMART; SM00406; IGV; 1.
CC PROSITE; PS50835; IG_LIKE; 1.
CC Immunoglobulin domain; Immunoglobulin V region; Signal.
KW SIGNAL 1 19
FT CHAIN 20 117 Ig heavy chain V-I region V35.
FT DOMAIN 20 >117 Ig-like.
FT NON_TER 20 117
FT 117

```

```

SQ SEQUENCE 117 AA; 13009 MW; B561CE63F8CE97BD CRC64;
Query Match 65.6%; Score 441; DB 1; Length 117;
Best Local Similarity 85.7%; Pred. No. 5.2e-36;
Matches 84; Conservative 5; Mismatches 9; Indels 0; Gaps 0;

QY 1 QVQLVQSGAEVKPKGASVKVSKASGYTFTSYDINWVRQATGQGLEWGWGWINPNSGNTDY 60
DB 20 QVQLVQSGAEVKPKGASVKVSKASGYTFTGYVHWVRQAPGQGLEWGRINPNSGGTY 79

QY 61 AQKFGQRTVTRDTSISTAYMELSLRSEDIAIYVCVR 98
DB 80 AQKFGQRTVTRDTSISTAYMELSLRSDDTAVYYCAR 117

RESULT 14
HVI1B HUMAN STANDARD; PRT; 117 AA.
AC P01743;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Ig heavy chain V-I region HG3 precursor.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN NUCLEOTIDE SEQUENCE.
RP MEDLINE=83144028; PubMed=6298778;
RA Rechavi G., Ram D., Glazer L., Zakut R., Givol D.;
RT "Evolutionary aspects of immunoglobulin heavy chain variable region
RT (VH) gene subgroups.";
RL Proc. Natl. Acad. Sci. U.S.A. 80:855-859(1983).
CC -1- SIMILARITY: Contains 1 Ig-like (immunoglobulin-like) domain.
CC This Swiss-Prot entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC -----
CC EMBL; J00240; AAA52988.1; -; Genomic_DNA.
CC PIR; A02024; HVHUG.
CC HSSP; P01751; 1NOB.
CC SMR; P01743; 20-116.
CC GO; GO:0005576; C:extracellular region; NAS.
CC GO; GO:0003823; P:antigen binding; NAS.
CC GO; GO:0006955; P:immune response; NAS.
CC InterPro; IPR007110; Ig-like.
CC InterPro; IPR003596; IGV.
CC SMART; SM00406; IGV; 1.
CC PROSITE; PS50835; IG_LIKE; 1.
CC Immunoglobulin domain; Immunoglobulin V region; Signal.
FT SIGNAL 1 19
FT CHAIN 20 117 Ig heavy chain V-I region HG3.
FT DOMAIN 20 >117 Ig-like.
FT NON_TER 117
FT 117
SQ SEQUENCE 117 AA; 12946 MW; 2D3F92FC60CD1FE7 CRC64;
Query Match 65.5%; Score 440; DB 1; Length 117;
Best Local Similarity 85.7%; Pred. No. 6.6e-36;
Matches 84; Conservative 5; Mismatches 9; Indels 0; Gaps 0;

QY 1 QVQLVQSGAEVKPKGASVKVSKASGYTFTSYDINWVRQATGQGLEWGWGWINPNSGNTDY 60
DB 20 QVQLVQSGAEVKPKGASVKVSKASGYTFTNSYVHWVRQAPGQGLEWGRINPNSGGTSY 79

QY 61 AQKFGQRTVTRDTSISTAYMELSLRSEDIAIYVCVR 98
DB 80 AQKFGQRTVTRDTSISTAYMELSLRSDDTAVYYCAR 117

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Db      134  TLVTWSS 140
Search completed: May 15, 2006, 17:03:57
Job time : 161.408 secs

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GenCore version 5.1.1.8
Copyright (c) 1993 - 2006 Bioceleration Ltd.
OM protein - protein search, using sw model
Run on: May 15, 2006, 16:53:57 ; Search time 126.077 Seconds
(without alignments)
376.380 Million cell updates/sec
Title: US-10-041-860-49
Perfect score: 558
Sequence: 1 EXVLQSPGTLSPGERAT.....CQYGSPPCSFGQTKLEIK 108
Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5
Searched: 2443163 seqs, 439378781 residues
Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A_Geneseq_21.*
1: Geneseqp1980s.*
2: Geneseqp1990s.*
3: Geneseqp2000s.*
4: Geneseqp2001s.*
5: Geneseqp2002s.*
6: Geneseqp2003as.*
7: Geneseqp2003bs.*
8: Geneseqp2004s.*
9: Geneseqp2005s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	558	100.0	108	ADK18625	Adk18625 Anti-huma
2	558	100.0	108	ADK18951	Adk18951 Anti-huma
3	558	100.0	108	ADK18835	Adk18835 Anti-huma
4	558	100.0	108	ADK18801	Adk18801 Anti-huma
5	558	100.0	108	ADL25394	Adl25394 Human mAb
6	535	95.9	108	ADY26769	Adv26769 Anti-NGF-
7	535	95.9	108	ADY26816	Adv26816 Human ant
8	535	95.9	128	ADZ57709	Adz57709 Germline
9	535	95.9	129	AAR38672	Aar38672 vk325-Jk2
10	533	95.5	108	ADP03986	Adp03986 Murine-ex
11	533	95.5	130	ABJ36930	Abj36930 Anti-CP40
12	533	95.5	384	AAM24101	Aam24101 Human EST
13	532	95.3	108	ADQ16703	Adq16703 Modified
14	532	95.3	108	ADV44439	Adv44439 PAX116 va
15	532	95.3	108	AEb12911	Aeb12911 Antibody
16	532	95.3	109	ADP46971	Adp46971 Murine li
17	532	95.3	112	ADV44477	Adv44477 Anti-teta
18	532	95.3	120	ADP40551	Adp40551 3E1/4G11
19	532	95.3	130	AEb12948	Aeb12948 Antibody
20	532	95.3	215	ADQ16702	Adq16702 Modified
21	532	95.3	215	ADV44438	Adv44438 PAX116 va
22	532	95.3	215	AEb12910	Aeb12910 Antibody
23	532	95.3	239	ADV44458	Adv44458 Anti-teta
24	532	95.3	239	AEb12929	Aeb12929 Antibody

25	531	95.2	108	9	ADZ42030	Adz42030 Ig L chai
26	531	95.2	108	9	ADZ42032	Adz42032 Ig L chai
27	531	95.2	108	9	ADZ42034	Adz42034 Ig L chai
28	531	95.2	108	9	AEA89845	Aea89845 Anti-IFN
29	530	95.0	384	4	AAU14462	Aau14462 Human nov
30	530	95.0	384	4	AAU14463	Aau14463 Human nov
31	530	95.0	384	4	AAU14461	Aau14461 Human nov
32	530	95.0	384	4	AAU14464	Aau14464 Human nov
33	530	95.0	384	8	ADH80782	Adh80782 Human pol
34	529	94.8	108	8	ADS84382	Ads84382 Human ant
35	529	94.8	108	8	ADP68524	Adp68524 Anti-EPO-
36	528	94.6	108	9	AEA89846	Aea89846 Anti-IFN
37	528	94.6	384	8	ADH80779	Adh80779 Human pol
38	528	94.6	384	8	ADH80781	Adh80781 Human pol
39	528	94.6	385	8	ADH80780	Adh80780 Human pol
40	526	94.3	108	6	AAE38059	Aae38059 Human 17G
41	526	94.3	108	9	ADY70202	Ady70202 Human mon
42	526	94.3	109	6	ADA89268	Ada89268 Human ant
43	526	94.3	109	8	ADP47295	Adp47295 Human pho
44	526	94.3	109	9	AEA41084	Aea41084 Germline
45	526	94.3	235	9	AEA41059	Aea41059 Anti-M-CS

ALIGNMENTS

RESULT 1
ADK18625
ID ADK18625 standard; protein; 108 AA.
XX AC ADK18625;
XX DT 06-MAY-2004 (first entry)
XX DE Anti-human PDGF-D antibody light chain protein sequence.
XX KW antiinflammatory; immunomodulator; cytostatic; gene therapy.
XX OS Homo sapiens.
XX PN WO2003057857-A2.
XX PD 17-JUL-2003.
XX PF 06-JAN-2003; 2003WO-US000398.
XX PR 07-JAN-2002; 2002US-00041860.
XX PA (ABGE-) ABGENIX INC.
XX PI Corvalan JRF, Jia X, Feng X, Yang X, Chen F, Gazit G, Weber R;
XX PI Bezabeh B;
XX DR WPI; 2003-587119/55.
XX PT New human monoclonal antibody that binds to platelet-derived growth
XX PT factor-D (PDGF-D), useful for treating chronic and recurrent human
XX PT diseases, such as inflammation, autoimmunity and cancer.
XX XX Disclosure; SEQ ID NO 49; 255pp; English.
XX CC The invention relates to a human monoclonal antibody that binds to
XX CC platelet-derived growth factor-D (PDGF-D). The antibodies are useful for
XX CC treating chronic and recurrent human diseases, such as inflammation,
XX CC autoimmunity and cancer. The PDGF-D nucleic acids and polypeptides are
XX CC useful for modulating collagen formation, and for staging various
XX CC cancers. Antibodies to platelet-derived growth factor-D (PDGF-D) were
XX CC generated using an active protein fragment of the gene product from the
XX CC clone 30664188.0.99 arising in the conditioned medium obtained when
XX CC HEK293 cells are transfected with the plasmid pCEF4/Sec-30664188. This
XX CC sequence corresponds to a protein used in the invention.
SQ Sequence 108 AA;

antiinflammatory; immunomodulator; cytostatic; gene therapy.

XX OS Homo sapiens.
XX PN WO2003057857-A2.
XX PD 17-JUL-2003.
XX XX
XX PF 06-JAN-2003; 2003WO-US000398.
XX PR 07-JAN-2002; 2002US-00041860.
XX PA (ABGE-) ABGENIX INC.
XX PI Corvalan JRF, Jia X, Peng X, Yang X, Chen F, Gazit G, Weber R;
PI Bezabeh B;
XX PI WPI; 2003-597119/55.
XX DR
XX XX
XX PT New human monoclonal antibody that binds to platelet-derived growth
XX factor-D (PDGF-D), useful for treating chronic and recurrent human
XX PT diseases, such as inflammation, autoimmunity and cancer.
XX PT
XX PS Disclosure; SEQ ID NO 225; 255pp; English.
XX XX
XX CC The invention relates to a human monoclonal antibody that binds to
XX platelet-derived growth factor-D (PDGF-D). The antibodies are useful for
XX treating chronic and recurrent human diseases, such as inflammation,
XX autoimmunity and cancer. The PDGF-D nucleic acids and polypeptides are
XX useful for modulating collagen formation, and for staging various
XX cancers. Antibodies to platelet-derived growth factor-D (PDGF-D) were
XX generated using an active protein fragment of the gene product from the
XX clone 30664188.0.99 arising in the conditioned medium obtained when
XX HEK293 cells are transfected with the plasmid pCEP4/Sec-30664188. This
XX sequence corresponds to a protein used in the invention.
XX SQ Sequence 108 AA;
Query Match 100.0%; Score 558; DB 7; Length 108;
Best Local Similarity 100.0%; Pred. No. 4.1e-35;
Matches 108; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQQKPKGQAPRLLIYATSSRATGIP 60
Db 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQQKPKGQAPRLLIYATSSRATGIP 60
QY 61 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGSFPCSPFGQGTKEIK 108
Db 61 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGSFPCSPFGQGTKEIK 108
RESULT 5
ADL25394
ID ADL25394 standard; protein; 108 AA.
XX AC
XX ADL25394;
XX DT 17-JUN-2004 (first entry)
XX DE Human mAb 6.4 light chain variable region protein SEQ ID NO:4.
XX XX
XX KW antibody; binding fragment; platelet derived growth factor-DD; PDGF-DD;
KW nephritis; mesangial cell proliferation inhibition;
KW mesangial proliferative glomerulonephritis; nephrotropic;
KW antinflammatory; dermatological; immunosuppressive; antidiabetic;
KW gene therapy; human; monoclonal antibody; mAb.
XX OS Homo sapiens.
XX XX
XX PN WO2004024098-A2.
XX PD 25-MAR-2004.
XX XX

16-SEP-2003; 2003WO-US029414.

16-SEP-2002; 2002US-0411137P.
(ABGE-) ABGENIX INC.
(CURA-) CURAGEN CORP.

Floege J, Gazit-Bornstein G, Keyt B, Larochele WJ, Lichenstein H;
WPI; 2004-269881/25.
N-PSDB; ADL25393.

Use of an antibody or its binding fragment that binds platelet derived
growth factor-DD (PDGF-DD) for preparing a medicament for treating
nephritis.
Disclosure; SEQ ID NO 4; 115pp; English.
The present invention describes an antibody or its binding fragment that
binds platelet derived growth factor-DD (PDGF-DD), where the antibody is
useful in preparing a medicament for treating nephritis. Also described:
(1) a method of detecting nephritis; (2) a method of treating nephritis;
(3) a method of inhibiting mesangial cell proliferation; and (4) a method
of treating mesangial proliferative glomerulonephritis. The antibody has
nephrotropic, antiinflammatory, dermatological, immunosuppressive and
antidiabetic activities, and can be used in gene therapy. The antibody or
its binding fragment, that binds PDGF-DD, can be used in preparing a
medicament for treating nephritis and related disorders, e.g., mesangial
proliferative glomerulonephritis. The present sequence represents a human
monoclonal antibody (mAb) variable region sequence, which is used in the
exemplification of the present invention.
Sequence 108 AA;
Query Match 100.0%; Score 558; DB 8; Length 108;
Best Local Similarity 100.0%; Pred. No. 4.1e-35;
Matches 108; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQQKPKGQAPRLLIYATSSRATGIP 60
Db 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQQKPKGQAPRLLIYATSSRATGIP 60
QY 61 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGSFPCSPFGQGTKEIK 108
Db 61 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGSFPCSPFGQGTKEIK 108
RESULT 6
ADY26769
ID ADY26769 standard; protein; 108 AA.
XX AC
XX ADY26769;
XX DT 19-MAY-2005 (first entry)
XX DE
XX DE Anti-NGF-antibody light chain variable region SEQ ID NO 84.
XX KW analgesic; gene therapy; antibody engineering; pharmaceutical; pain;
KW neurological disease; NGF; nerve growth factor;
KW light chain variable region.
XX OS Homo sapiens.
XX XX
XX PN WO2005019266-A2.
XX PD 03-MAR-2005.
XX PF 15-JUL-2004; 2004WO-US022876.
XX PR 15-JUL-2003; 2003US-0487431P.
XX PA (AMGE-) AMGEN INC.
XX XX

KW Alzheimers disease; tumor; glioblastoma; sarcoma; carcinoma; diagnosis;
KW antibody.
XX Homo sapiens.
XX GB2404660-A.
XX 09-FEB-2005.
XX 04-AUG-2004; 2004GB-00017384.
XX 04-AUG-2003; 2003US-0492432P.
XX (PFIZ) PFIZER PROD INC.
XX (ABGE-) ABGENIX INC.
XX Michaud NR, Kajiji S, Borzillo G, Bedian V, Coleman K, Green LL;
XX Jia X;
XX WPI; 2005-145169/16.
XX Human monoclonal antibody or antigen-binding portion that specifically
XX binds to c-Met, useful for treating cancer by inhibiting c-Met or for
XX promoting tissue regeneration and wound healing by activating c-Met.
XX Example 2; SEQ ID NO 18; 128pp; English.
XX The invention relates to a human monoclonal antibody (I) or its antigen-
XX binding portion that specifically binds to c-Met, comprises a heavy chain
XX having a fully defined sequence (S1) of 13.3.2 heavy chain, where X2 is
XX lysine and X4 is threonine, and a light chain having a fully defined
XX sequence (S2) of 13.3.2 light chain, where X8 is threonine, where both
XX chains are without a signal sequence. All the sequences are fully defined
XX in the specification. (I) is useful for the manufacture of a medicament
XX for treating a hyperproliferative disorder in a subject, where the
XX antibody or its portion is a c-Met antagonist. (I) is useful for
XX manufacture of a medicament for promoting wound healing or tissue
XX regeneration in a subject, where the antibody, antigen-binding portion or
XX the composition activates c-Met. (I) which has a c-Met agonist activity
XX is useful in tissue regeneration or wound healing (skin ulcers or gastric
XX ulcers), or treating ischemia associated with kidney transplant
XX rejection, or attenuating toxicity associated with cyclosporin treatment
XX after transplant surgery, for treating myocardial infarction, cardiac
XX ischemia due to reperfusion injury, restenosis after angioplasty or
XX vascular diseases. (I) which has a c-Met antagonist activity is useful
XX for treating cancers of brain, lung, squamous cell, bladder, neck, liver,
XX prostate, etc., proliferative vitreoretinopathy, proliferative diabetic
XX retinopathy, endometriosis, and arthritis, for inhibiting plaque
XX formation in Alzheimer's disease, inhibiting cellular mitogenic
XX responses, or for treating tumor, glioblastoma, sarcomas, or carcinomas.
XX (I) is useful for detecting c-Met in a biological sample in vitro or in
XX vivo, thus useful for diagnosing c-Met-expressing tumor. (I) has
XX selectivity for c-Met that is at least 100 times greater than their
XX selectivity for insulin like growth factor I receptor. This sequence
XX corresponds to the amino acid sequence for a germline antibody light
XX chain used in the invention.
SQ Sequence 128 AA;

Query Match 95.9%; Score 535; DB 9; Length 128;
Best Local Similarity 96.3%; Pred. No. 2.7e-33;
Matches 104; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLSPGGERATLSCRASQSVSSSYLAWYQKPGQAPRLITYATSSRATGIP 60
DB 21 EIVLTQSPGTLSPGGERATLSCRASQSVSSSYLAWYQKPGQAPRLITYAGSSRATGIP 80
QY 61 DRFGSGSGGTDTLTISRLEPDAFYVYQQYQSGSPCSFGQGTKLEIK 108
DB 81 DRFGSGSGGTDTLTISRLEPDAFYVYQQYQSGSPFYFGQGTKLEIK 128

AAR38672
ID AAR38672 standard; protein; 129 AA.
XX AC AAR38672;
XX 25-MAR-2003 (revised)
DT 01-NOV-1993 (first entry)
XX DE vk325-Jk2.
XX Monoclonal antibody; MAb; envelope; glycoprotein; gp120; HIV; AIDS; CD4;
KW receptor; hybridoma; polymerase chain reaction; PCR; heavy; light; chain;
KW epitope; immune deficiency.
XX Homo sapiens.
XX Key Location/Qualifiers
FT Region 1..116
FT /label= vk325
FT Peptide 1..20
FT /label= sig_peptide
FT Misc-difference 1
FT /note= "Met encoded by ATC (sic)"
FT Protein 21..129
FT /label= mat_protein
FT Misc-difference 35
FT /note= "Pro encoded by GCA (sic)"
FT Region 44..55
FT /label= CDR1
FT Region 71..77
FT /label= CDR2
FT Misc-difference 99
FT /note= "Leu encoded by GTG (sic)"
FT Region 110..117
FT /label= CDR3
FT Misc-difference 113
FT /note= "Gly encoded by GAT (sic)"
FT Misc-difference 114
FT /note= "Ser encoded by AAC (sic)"
FT Misc-difference 116
FT /note= "Pro encoded by GTT (sic)"
FT Region 117..129
FT /label= Jk2
XX WO9312232-A1.
XX 24-JUN-1993.
XX 10-DEC-1992; 92WO-US010928.
XX 10-DEC-1991; 91US-00804652.
XX (DAND) DANA FARRER CANCER INST INC.
XX (NEWE-) NEW ENGLAND DEACONNESS HOSPITAL CORP.
XX Marasco WA, Sodroski JG, Posner MR, Haseltine WA;
XX WPI; 1993-214174/26.
XX N-PSDB; AAQ42706.
XX DNA segments encoding monoclonal antibody - which binds to gp120 and
XX neutralises HIV, for treating AIDS, and for diagnosing and monitoring HIV
XX infection.
XX Disclosure; Page 74-75; 109pp; English.
XX The nucleotide sequence of F105 V_k (AAQ42707 - sequence differs from
XX other F105 V_k sequences given elsewhere in the specification) was
XX compared with germline gene Humvk325 (AAQ42706), showing 97.7%
XX similarity. By nucleotide sequence analysis, F105 appears to be derived
XX from a member of the V_k III subgroup gene family. (Updated on 25-MAR-2003
XX to correct PN field.)

```
SQ Sequence 129 AA;
Query Match          95.9%; Score 535; DB 2; Length 129;
Best Local Similarity 96.3%; Pred. No. 2.7e-33;
Matches 104; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLIIYATSSRATGIP 60
Db 21 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLIIYATSSRATGIP 80

Qy 61 DRFSGSGGTDFLTITSLRLEPEDFAVYYCQYGGSSPCSFQGGTKLEIK 108
Db 81 DRFSGSGGTDFLTITSLRLEPEDFAVYYCQYGGSSPCSFQGGTKLEIK 128

RESULT 10
ADP03986
ID ADP03986 standard; protein; 108 AA.
XX
AC ADP03986;
XX
DT 29-JUL-2004 (first entry)
XX
DE Murine-expressed anti-human CA IX monoclonal antibody VL protein SEQ 156.
XX
KW monoclonal antibody; carbonic anhydrase IX; CA IX tumour antigen;
KW cytosolic; colorectal neoplasm; renal cell carcinoma;
KW cervical intraepithelial squamous neoplasia;
KW cervical intraepithelial glandular neoplasia; oesophageal; breast cancer;
KW gene therapy; murine; mouse; human; light chain variable domain.
XX
OS Unidentified.
XX
PN WO2003048328-A2.
XX
PD 12-JUN-2003.
XX
PF 02-DEC-2002; 2002WO-US038550.
XX
PR 03-DEC-2001; 2001US-0337275P.
XX
PA (ABGE-) ABGENIX INC.
XX
PI Gudas J, Foltz I, Handa M, Gallo M;
XX
WPI; 2003-523295/49.
XX
New anti-CA IX monoclonal antibody, useful for treating a tumor e.g.,
PT colorectal neoplasms, colorectal tumors, cervical carcinoma, cervical
PT intraepithelial squamous and glandular neoplasia or esophageal tumors.
XX
Example 2; SEQ ID NO 156; 89pp; English.
XX
The invention relates to a novel isolated monoclonal antibody (mAb)
XX comprising a heavy chain polypeptide and light chain polypeptide having a
XX sequence chosen from one of 53 fully defined amino acid sequences given
XX in the specification, where the antibody specifically binds carbonic
XX anhydrase IX (CA IX) tumour antigen. The antibody of the invention
XX demonstrates cytostatic activity and may be useful for treating a tumour,
XX such as colorectal neoplasm, renal cell carcinoma, cervical carcinoma,
XX cervical intraepithelial squamous and glandular neoplasia, oesophageal
XX tumour or breast cancer, possibly via gene therapy. The current sequence
XX is that of a murine-expressed anti-human CA IX monoclonal antibody VL
XX (light chain variable domain) protein of the invention. The protein was
XX generated via the introduction of the human CA IX protein into a
XX transgenic mouse strain.
XX
Sequence 108 AA;
Query Match          95.5%; Score 533; DB 7; Length 108;
Best Local Similarity 95.4%; Pred. No. 3.2e-33;
Matches 103; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLIIYATSSRATGIP 60
Db 21 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLIIYATSSRATGIP 80

SQ Sequence 130 AA;
Query Match          95.5%; Score 533; DB 6; Length 130;
Best Local Similarity 95.4%; Pred. No. 3.8e-33;
Matches 103; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLIIYATSSRATGIP 60
Db 21 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLIIYATSSRATGIP 80
```

QY 61 DRFGSGSGTDFLTISRLEPEDFAVYCCQYSSPCSFQGTGLEIK 108
 DB 81 DRFGSGSGTDFLTISRLEPEDFAVYCCQYSSPCSFQGTGLEIK 128

RESULT 12

AM24101
 ID AAM24101 standard; protein; 384 AA.

AC AAM24101;

XX 12-OCT-2001 (first entry)

DE Human EST encoded protein SEQ ID NO: 1626.

XX Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;
 KW tomato; monkey; dog; sea urchin; expressed sequence tag; EST;
 KW diagnostics; forensic test; gene mapping; genetic disorder; biodiversity;
 KW gene therapy; nutrition.

XX Homo sapiens.

XX WO200154477-A2.

XX 02-AUG-2001.

XX 25-JAN-2001; 2001WO-US002687.

XX 25-JAN-2000; 2000US-00491404.

XX 17-JUL-2000; 2000US-00617746.

XX 03-AUG-2000; 2000US-00631451.

XX 15-SEP-2000; 2000US-00663870.

XX (HYSE-) HYSEQ INC.

XX Tang YT, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V;

PI Cao Y, Drmanac RA, Zhang J, Werhman T;

XX WPI; 2001-476164/51.

XX N-PSDB; AAH98760.

XX Isolated polypeptide for treatment of diseases, diagnostics, raising
 PT antibodies and research use.

XX Claim 20; Page 1102-1103; 1275pp; English.

XX The present invention provides the protein and coding sequences of novel
 CC proteins from a variety of organisms, including human, dog, cat, horse,
 CC cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea
 CC urchin and tomato. These were derived from expressed sequence tags (ESTs)
 CC from the organism of interest. They can be used in diagnostics,
 CC forensics, gene mapping, identification of mutations, to assess
 CC biodiversity and for nutritional purposes. The present sequence is a
 CC protein of the invention

XX Sequence 384 AA;

Query Match 95.5%; Score 533; DB 4; Length 384;

Best Local Similarity 95.4%; Pred. No. 1e-32;

Matches 103; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKQPGAPRLLIYATSSRATGIP 60

DB 167 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKQPGAPRLLIYATSSRATGIP 226

QY 61 DRFGSGSGTDFLTISRLEPEDFAVYCCQYSSPCSFQGTGLEIK 108

DB 227 DRFGSGSGTDFLTISRLEPEDFAVYCCQYSSPCSFQGTGLEIK 274

RESULT 13

ADQ16703
 ID ADQ16703 standard; protein; 108 AA.

XX ADQ16703;
 XX 09-SEP-2004 (first entry)
 XX Modified immunoglobulin clone 116 LC variable region SEQ ID NO:123.
 XX immunoglobulin; complementarity determining region; CDR; peptide mimetic;
 KW erythropoietin; EPO; thrombopoietin; TPO; immunosuppressive;
 KW immunotherapy; thrombocytopenia.

XX Synthetic.

XX WO2004050017-A2.

XX 17-JUN-2004.

XX 17-NOV-2003; 2003WO-US036894.

XX 02-DEC-2002; 2002US-00307724.

XX (ALEX-) ALEXION PHARM INC.

XX Bowdish KS, Frederickson S, Renshaw M;

XX WPI; 2004-460973/43.

XX New immunoglobulin molecule comprising a region, where two
 PT complementarity determining regions (CDRs) are replaced with EPO mimetic
 PT or a TPO mimetic, useful for treating thrombocytopenia.

XX Example 8; SEQ ID NO 123; 107pp; English.

XX The invention relates to a novel immunoglobulin molecule or its fragment
 CC comprising a region where amino acid residues corresponding to at least a
 CC portion of a two complementarity determining regions (CDRs) are replaced
 CC with a peptide mimetic selected from an erythropoietin (EPO) mimetic and
 CC a thrombopoietin (TPO) mimetic. An immunoglobulin molecule of the
 CC invention has immunosuppressive activity, and may have a use in
 CC immunotherapy. The immunoglobulin molecule is useful for diagnosing or
 CC treating thrombocytopenia as a result of chemotherapy, bone marrow
 CC transplantation, or chronic diseases such as idiopathic thrombocytopenia.
 CC The present sequence represents immunoglobulin clone 116 light chain
 CC variable region.

XX Sequence 108 AA;

Query Match 95.3%; Score 532; DB 8; Length 108;

Best Local Similarity 95.4%; Pred. No. 3.9e-33;

Matches 103; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKQPGAPRLLIYATSSRATGIP 60

DB 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKQPGAPRLLIYATSSRATGIP 60

QY 61 DRFGSGSGTDFLTISRLEPEDFAVYCCQYSSPCSFQGTGLEIK 108

DB 61 DRFGSGSGTDFLTISRLEPEDFAVYCCQYSSPCSFQGTGLEIK 108

RESULT 14

ADV44439

ID ADV44439 standard; protein; 108 AA.

XX ADV44439;

XX 10-MAR-2005 (first entry)

XX pAX116 variable light chain variable region.

XX anti-HIV; cytostatic; gene therapy; antibody engineering; diagnosis;
 KW HIV-infection; anti-HIV; chemotherapy; bone marrow transplantation;
 KW transplant rejection; prophylaxis; myeloproliferative disorder;

CC tetanus toxoid Fab antibody with engrafted TPO mimetic peptides in place
 CC of one or more of its CDRs.

XX
 SQ Sequence 108 AA;

Query Match 95.3%; Score 532; DB 9; Length 108;
 Best Local Similarity 95.4%; Pred. No. 3.9e-33;
 Matches 103; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
 QY 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYATSSRATGIP 60
 |||||
 Db 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYATSSRATGIP 60
 |||||
 QY 61 DRPFGSGGTDFTLTISRLEPEDFAVYCCQYGSSPCSFQGTKEIK 108
 |||||
 Db 61 DRPFGSGGTDFTLTISRLEPEDFAVYCCQYGSSPCSFQGTKEIK 108
 |||||

Search completed: May 15, 2006, 16:58:53
 Job time : 128.077 secs

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Result No.	Query			DB	ID	Description
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1	530	95.0	108	1	US-08-232-081B-42	Sequence 42, Appl
2	529	94.8	109	2	US-09-025-769B-16	Sequence 16, Appl
3	529	94.8	109	2	US-09-490-070A-16	Sequence 16, Appl
4	529	94.8	109	2	US-09-490-153-16	Sequence 16, Appl
5	529	94.8	109	2	US-09-490-324-16	Sequence 16, Appl
6	525	94.1	108	1	US-08-488-113B-150	Sequence 150, Appl
7	525	94.1	108	1	US-08-477-484B-150	Sequence 150, Appl
8	525	94.1	108	1	US-08-646-360-150	Sequence 150, Appl
9	525	94.1	108	2	US-08-839-765-150	Sequence 150, Appl
10	525	94.1	108	2	US-09-136-389-150	Sequence 150, Appl
11	525	94.1	108	2	US-09-610-838-150	Sequence 150, Appl
12	525	94.1	108	2	US-09-711-485-150	Sequence 150, Appl
13	524.5	94.0	226	2	US-09-456-090A-50	Sequence 50, Appl
14	524.5	94.0	226	2	US-09-456-090A-86	Sequence 86, Appl
15	524.5	94.0	226	2	US-09-453-234-50	Sequence 50, Appl
16	524.5	94.0	226	2	US-09-453-234-86	Sequence 86, Appl
17	521	93.4	235	2	US-09-472-087-14	Sequence 14, Appl
18	521	93.4	235	2	US-09-472-087-65	Sequence 65, Appl
19	518.5	92.9	226	2	US-09-456-090A-80	Sequence 80, Appl
20	518.5	92.9	226	2	US-09-453-234-80	Sequence 80, Appl
21	518.5	92.9	236	2	US-09-859-053-34	Sequence 34, Appl
22	518	92.8	108	2	US-09-240-274-178	Sequence 178, Appl
23	518	92.8	108	2	US-09-848-798-178	Sequence 178, Appl
24	513.5	92.0	236	2	US-09-859-053-38	Sequence 38, Appl
25	512.5	91.8	226	2	US-09-456-090A-74	Sequence 74, Appl
26	512.5	91.8	226	2	US-09-453-234-74	Sequence 74, Appl
27	511.5	91.7	226	2	US-09-456-090A-42	Sequence 42, Appl

1 COUNTRY: USA
2 ZIP: 10021
3 COMPUTER READABLE FORM:
4 MEDIUM TYPE: Floppy disk
5 COMPUTER: IBM PC compatible
6 OPERATING SYSTEM: PC-DOS/MS-DOS
7 SOFTWARE: Patent In Release #1.0, Version #1.30 (EPO)
8 CURRENT APPLICATION DATA:
9 APPLICATION NUMBER: US/09/490,153
10 FILING DATE: 24-Jan-2000
11 PRIOR APPLICATION DATA:
12 APPLICATION NUMBER: US/09/025,769B
13 FILING DATE: 18-FEB-1998
14 APPLICATION NUMBER: EP 95 11 3021.0
15 FILING DATE: 18-AUG-1995
16 ATTORNEY/AGENT INFORMATION:
17 NAME: James F. Haley, Jr., Esq.
18 REGISTRATION NUMBER: 27,794
19 REFERENCE/DOCKET NUMBER: MORPHO/5
20 TELECOMMUNICATION INFORMATION:
21 TELEPHONE: (212)596-9090
22 TELEFAX: (212)596-9090
23 INFORMATION FOR SEQ ID NO: 16:
24 SEQUENCE CHARACTERISTICS:
25 LENGTH: 109 amino acids
26 TYPE: amino acid
27 STRANDEDNESS: <Unknown>
28 TOPOLOGY: linear
29 MOLECULE TYPE: protein
30 SEQUENCE DESCRIPTION: SEQ ID NO: 16:
31 US-09-490-153-16

Query Match 94.8%; Score 529; DB 2; Length 109;
Best Local Similarity 94.4%; Pred. No. 1.8e-42;
Matches 102; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
QY 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQQKPKQAPRLIYATSSRATGIP 60
DB 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQQKPKQAPRLIYAGSSRATGIP 60
QY 61 DRFGSGSGTDFTLTISRLEPEDFAVYYCQQYGSPPCSFGQGTKLEIK 108
DB 61 DRFGSGSGTDFTLTISRLEPEDFAVYYCQQYGSPPYTFGQGTKVEIK 108

RESULT 5
US-09-490-324-16
Sequence 16, Application US/09490324
Patent No. 6828422
GENERAL INFORMATION:
APPLICANT: Knappik, Achim
Pack, Peter
Ilag, Vic
Ge, Liming
Moroney, Simon
Plueckthun, Andreas
TITLE OF INVENTION: Protein/(Poly)peptide libraries
NUMBER OF SEQUENCES: 373
CORRESPONDENCE ADDRESS:
ADDRESSEE: James F. Haley, Jr., Esq. c/o Fish & Neave
STREET: 1251 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10021
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/490,324
FILING DATE: 24-Jan-2000

1 PRIOR APPLICATION DATA:
2 APPLICATION NUMBER: US/09/025,769
3 FILING DATE: 18-FEB-1998
4 APPLICATION NUMBER: EP 95 11 3021.0
5 FILING DATE: 18-AUG-1995
6 ATTORNEY/AGENT INFORMATION:
7 NAME: James F. Haley, Jr., Esq.
8 REGISTRATION NUMBER: 27,794
9 REFERENCE/DOCKET NUMBER: MORPHO/5
10 TELECOMMUNICATION INFORMATION:
11 TELEPHONE: (212)596-9000
12 TELEFAX: (212)596-9090
13 INFORMATION FOR SEQ ID NO: 16:
14 SEQUENCE CHARACTERISTICS:
15 LENGTH: 109 amino acids
16 TYPE: amino acid
17 STRANDEDNESS: <Unknown>
18 TOPOLOGY: linear
19 MOLECULE TYPE: protein
20 SEQUENCE DESCRIPTION: SEQ ID NO: 16:
21 US-09-490-324-16
22 Query Match 94.8%; Score 529; DB 2; Length 109;
23 Best Local Similarity 94.4%; Pred. No. 1.8e-42;
24 Matches 102; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
25 QY 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQQKPKQAPRLIYATSSRATGIP 60
26 DB 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQQKPKQAPRLIYAGSSRATGIP 60
27 QY 61 DRFGSGSGTDFTLTISRLEPEDFAVYYCQQYGSPPCSFGQGTKLEIK 108
28 DB 61 DRFGSGSGTDFTLTISRLEPEDFAVYYCQQYGSPPYTFGQGTKVEIK 108
29 RESULT 6
30 US-08-488-113B-150
31 Sequence 150, Application US/08488113B
32 Patent No. 5744580
33 GENERAL INFORMATION:
34 APPLICANT: Better, Marc D.
35 APPLICANT: Carroll, Stephen F.
36 APPLICANT: Studnika, Gary M.
37 TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
38 TITLE OF INVENTION: Proteins
39 NUMBER OF SEQUENCES: 169
40 CORRESPONDENCE ADDRESS:
41 ADDRESSEE: McAndrews, Held & Malloy, Ltd.
42 STREET: 500 West Madison Street, 34th floor
43 CITY: Chicago
44 STATE: Illinois
45 COUNTRY: USA
46 ZIP: 60661
47 COMPUTER READABLE FORM:
48 MEDIUM TYPE: Floppy disk
49 COMPUTER: IBM PC compatible
50 OPERATING SYSTEM: PC-DOS/MS-DOS
51 SOFTWARE: Patent In Release #1.0, Version #1.25
52 CURRENT APPLICATION DATA:
53 APPLICATION NUMBER: US/08/488,113B
54 FILING DATE: 07-JUN-1995
55 CLASSIFICATION: 530
56 PRIOR APPLICATION DATA:
57 APPLICATION NUMBER: US 08/425,336
58 FILING DATE: 18-APR-1995
59 PRIOR APPLICATION DATA:
60 APPLICATION NUMBER: US 08/064,691
61 FILING DATE: 12-MAY-1993
62 PRIOR APPLICATION DATA:
63 APPLICATION NUMBER: US 07/988,430
64 FILING DATE: 09-DEC-1992
65 PRIOR APPLICATION DATA:
66 APPLICATION NUMBER: US 07/901,707

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; FILING DATE: 19-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 11022US07/200-70.P3.C2A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-8889
; TELEFAX: 312/707-9155
; TELEX: 650 388-1248
; INFORMATION FOR SEQ ID NO: 150:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 108 amino acids
; TYPE: amino acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-488-113B-150

Query Match          94.1%; Score 525; DB 1; Length 108;
Best Local Similarity 94.4%; Pred. No. 4.3e-42;
Matches 102; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLSPGERATLSCRSQSVSSSYLAWYQOKPGQAPRLLIYATSSRATGIP 60
Db 1 EIVLTQSPGTLSPGERATLSCRSQSVSSSYLAWYQOKPGQAPRLLIYATSSRATGIP 60

Qy 61 DRFGSGSGTDFTLTISRLEPEDFAVYYCQYGGSPCSFGQGTKLEIK 108
Db 61 DRFGSGSGTDFTLTISRLEPEDFAVYYCQYGGSPXTFGQGTKVEIK 108

RESULT 7
US-08-477-484B-150
; Sequence 150, Application US/08477484B
; Patent No. 5756659
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Stephen F.
; APPLICANT: Studnika, Gary M.
; TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
; PROTEINS
; NUMBER OF SEQUENCES: 189
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street, 34th floor
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,484B
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/425,336
; FILING DATE: 18-APR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/064,691
; FILING DATE: 12-MAY-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/988,430
; FILING DATE: 09-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/901,707
; FILING DATE: 19-JUN-1992
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; FILING DATE: 19-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 11022US07/200-70.P3.C2A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-8889
; TELEFAX: 312/707-9155
; TELEX: 650 388-1248
; INFORMATION FOR SEQ ID NO: 150:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 108 amino acids
; TYPE: amino acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-477-484B-150

Query Match          94.1%; Score 525; DB 1; Length 108;
Best Local Similarity 94.4%; Pred. No. 4.3e-42;
Matches 102; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLSPGERATLSCRSQSVSSSYLAWYQOKPGQAPRLLIYATSSRATGIP 60
Db 1 EIVLTQSPGTLSPGERATLSCRSQSVSSSYLAWYQOKPGQAPRLLIYATSSRATGIP 60

Qy 61 DRFGSGSGTDFTLTISRLEPEDFAVYYCQYGGSPCSFGQGTKLEIK 108
Db 61 DRFGSGSGTDFTLTISRLEPEDFAVYYCQYGGSPXTFGQGTKVEIK 108

RESULT 8
US-08-646-360-150
; Sequence 150, Application US/08646360
; Patent No. 5837491
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Stephen F.
; APPLICANT: Studnika, Gary M.
; TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
; PROTEINS
; NUMBER OF SEQUENCES: 173
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street, 34th floor
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/646,360
; FILING DATE: 13-MAY-1996
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/05348
; FILING DATE: 12-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/064,691
; FILING DATE: 12-MAY-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/988,430
; FILING DATE: 09-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/901,707
; FILING DATE: 19-JUN-1992
; PRIOR APPLICATION DATA:
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; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 200-70.P4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-8889
; TELEFAX: 312/707-9155
; TELEX: 650 388-1248
; INFORMATION FOR SEQ ID NO: 150:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 108 amino acids
; TYPE: amino acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-136-389-150

Query Match          94.1%; Score 525; DB 2; Length 108;
Best Local Similarity 94.4%; Pred. No. 4.3e-42;
Matches 102; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYATSSRATGIP 60
Db 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYATSSRATGIP 60

Qy 61 DRFGSGSGTDFTLTISRLEPEDFAVYYCQYGSPPCSFGQGTKLEIK 108
Db 61 DRFGSGSGTDFTLTISRLEPEDFAVYYCQYGSPPCSFGQGTKLEIK 108

RESULT 11
US-09-610-838-150
; Sequence 150, Application US/09610838
; Patent No. 6376217
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Stephen F.
; APPLICANT: Studnika, Gary M.
; TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
; TITLE OF INVENTION: Proteins
; NUMBER OF SEQUENCES: 173
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street, 34th floor
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 06-JUL-2000
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/136,389
; FILING DATE: 18-AUG-1998
; APPLICATION NUMBER: 08/646,360
; FILING DATE: 13-MAY-1996
; APPLICATION NUMBER: PCT/US94/05348
; FILING DATE: 12-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/064,691
; FILING DATE: 12-MAY-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/988,430
; FILING DATE: 09-DEC-1992
; PRIOR APPLICATION DATA:
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; APPLICATION NUMBER: US 07/901,707
; FILING DATE: 19-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,567
; FILING DATE: 04-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 200-70.P4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-8889
; TELEFAX: 312/707-9155
; TELEX: 650 388-1248
; INFORMATION FOR SEQ ID NO: 150:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 108 amino acids
; TYPE: amino acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-610-838-150

Query Match          94.1%; Score 525; DB 2; Length 108;
Best Local Similarity 94.4%; Pred. No. 4.3e-42;
Matches 102; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYATSSRATGIP 60
Db 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYATSSRATGIP 60

Qy 61 DRFGSGSGTDFTLTISRLEPEDFAVYYCQYGSPPCSFGQGTKLEIK 108
Db 61 DRFGSGSGTDFTLTISRLEPEDFAVYYCQYGSPPCSFGQGTKLEIK 108

RESULT 12
US-09-711-485-150
; Sequence 150, Application US/09711485
; Patent No. 6649742
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; APPLICANT: Carroll, Stephen F.
; APPLICANT: Studnika, Gary M.
; TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
; TITLE OF INVENTION: Proteins
; NUMBER OF SEQUENCES: 169
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street, 34th floor
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/711,485
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/839,765
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/064,691
; FILING DATE: 12-MAY-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/988,430
; FILING DATE: 09-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/901,707
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OM protein - protein search, using sw model

Run on: May 15, 2006, 17:19:47 ; Search time 108.927 Seconds
(without alignments)
414.273 Million cell updates/sec

Title: US-10-041-860-49
Perfect score: 558
Sequence: 1 EIVLTQSPGTLSPGERAT.....CQQYSSPCSFQGTGKLEIK 108

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA_Main:
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	558	100.0	108	4	US-10-041-860-49
2	558	100.0	108	4	US-10-041-860-49
3	558	100.0	108	4	US-10-041-860-225
4	558	100.0	108	4	US-10-041-860-259
5	558	100.0	108	4	US-10-041-860-375
6	535	95.9	108	5	US-10-665-383-4
7	535	95.9	108	5	US-10-891-658-84
8	535	95.9	108	5	US-10-891-658-131
9	533	95.5	128	5	US-10-910-901-18
10	533	95.5	130	4	US-10-309-762-156
11	532	95.3	108	4	US-10-693-629-46
12	532	95.3	108	4	US-10-307-724-123
13	532	95.3	108	5	US-10-737-290-123
14	532	95.3	109	5	US-10-725-962-27
15	532	95.3	120	5	US-10-506-743-2
16	532	95.3	130	5	US-10-737-290-161
17	532	95.3	215	5	US-10-307-724-122
18	532	95.3	239	5	US-10-737-290-142
19	530	95.0	384	4	US-10-291-265-804
20	530	95.0	384	4	US-10-291-265-805
21	530	95.0	384	4	US-10-291-265-806
22	530	95.0	384	4	US-10-291-265-807
23	529	94.8	108	4	US-10-269-711-21
24	528	94.8	108	4	US-10-684-109-21
25	528	94.6	108	3	US-09-948-939-9
26	528	94.6	108	6	US-11-040-846-9
27	526	94.3	108	4	US-10-338-366-4

28	526	94.3	109	4	US-10-371-942-112	Sequence 112, App
29	526	94.3	109	5	US-10-726-332-210	Sequence 210, App
30	526	94.3	109	5	US-10-938-353-114	Sequence 114, App
31	526	94.3	235	5	US-10-938-353-60	Sequence 60, Appl
32	525.5	94.2	131	4	US-10-478-056-27	Sequence 27, Appl
33	525	94.1	106	4	US-10-309-762-163	Sequence 163, App
34	525	94.1	108	5	US-10-127-890-150	Sequence 150, App
35	525	94.1	108	5	US-10-717-243-150	Sequence 150, App
36	524.5	94.0	109	4	US-10-073-644C-8	Sequence 8, Appl
37	524.5	94.0	109	6	US-11-009-731-94	Sequence 94, Appl
38	524.5	94.0	226	3	US-09-453-234-50	Sequence 50, Appl
39	524.5	94.0	226	3	US-09-453-234-86	Sequence 86, Appl
40	524	93.9	108	4	US-10-309-762-43	Sequence 43, Appl
41	524	93.9	109	5	US-10-477-830-89	Sequence 89, Appl
42	524	93.9	109	5	US-10-989-462-267	Sequence 267, App
43	524	93.9	255	5	US-10-989-462-278	Sequence 278, App
44	523	93.7	108	4	US-10-292-088-113	Sequence 113, App
45	523	93.7	108	6	US-11-102-403-19	Sequence 19, Appl

ALIGNMENTS

RESULT 1
US-10-041-860-49
; Sequence 49, Application US/10041860
; Publication No. US20030157109A1
; GENERAL INFORMATION:
; APPLICANT: Corvalan, Jose R.F.
; APPLICANT: Jia, Xiao-Chi
; APPLICANT: Feng, Xiao
; APPLICANT: Yang, Xiao-Dong
; APPLICANT: Chen, Francine
; APPLICANT: Gagit, Gadi
; APPLICANT: Weber, Richard
; APPLICANT: Bezabeh, Binyam
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
; FILE REFERENCE: ARGENIX.051A
; CURRENT APPLICATION NUMBER: US/10/041,860
; CURRENT FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 377
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 108
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-041-860-49
Query Match 100.0%; Score 558; DB 4; Length 108;
Best Local Similarity 100.0%; Pred. No. 4.5e-40;
Matches 108; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 EIVLTQSPGTLSPGERATLSCRASQSVSSYLAWYQQKPGAPRLIYATSSRATGIP 60
Db 1 EIVLTQSPGTLSPGERATLSCRASQSVSSYLAWYQQKPGAPRLIYATSSRATGIP 60
Qy 61 DRFGSGSGTDTLTISRLEPEDFVNYCCQYSSPCSFQGTGKLEIK 108
Db 61 DRFGSGSGTDTLTISRLEPEDFVNYCCQYSSPCSFQGTGKLEIK 108
RESULT 2
US-10-041-860-225
; Sequence 225, Application US/10041860
; Publication No. US20030157109A1
; GENERAL INFORMATION:
; APPLICANT: Corvalan, Jose R.F.
; APPLICANT: Jia, Xiao-Chi
; APPLICANT: Feng, Xiao
; APPLICANT: Yang, Xiao-Dong
; APPLICANT: Chen, Francine
; APPLICANT: Gagit, Gadi

; APPLICANT: Weber, Richard
; APPLICANT: Bezabeh, Binyam
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: AGENIX.051A
; CURRENT APPLICATION NUMBER: US/10/041.860
; CURRENT FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 377
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 225
; LENGTH: 108
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-041-860-225

Query Match 100.0%; Score 558; DB 4; Length 108;
Best Local Similarity 100.0%; Pred. No. 4.5e-40;
Matches 108; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSYLAWYQKPGQAPRLLIYATSSRATGIP 60
Db 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSYLAWYQKPGQAPRLLIYATSSRATGIP 60
Qy 61 DRFSGSGGTDFTLTISRLEPEDFAVYYCQYGSPPCSFGQGTKLEIK 108
Db 61 DRFSGSGGTDFTLTISRLEPEDFAVYYCQYGSPPCSFGQGTKLEIK 108

RESULT 3
US-10-041-860-259
; Sequence 259, Application US/10041860
; Publication No. US20030157109A1
; GENERAL INFORMATION:
; APPLICANT: Corvalan, Jose R.F.
; APPLICANT: Jia, Xiao-Chi
; APPLICANT: Feng, Xiao
; APPLICANT: Yang, Xiao-Dong
; APPLICANT: Chen, Francine
; APPLICANT: Gazit, Gadi
; APPLICANT: Weber, Richard
; APPLICANT: Bezabeh, Binyam
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: AGENIX.051A
; CURRENT APPLICATION NUMBER: US/10/041.860
; CURRENT FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 377
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 259
; LENGTH: 108
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-041-860-259

Query Match 100.0%; Score 558; DB 4; Length 108;
Best Local Similarity 100.0%; Pred. No. 4.5e-40;
Matches 108; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSYLAWYQKPGQAPRLLIYATSSRATGIP 60
Qy 61 DRFSGSGGTDFTLTISRLEPEDFAVYYCQYGSPPCSFGQGTKLEIK 108
Db 61 DRFSGSGGTDFTLTISRLEPEDFAVYYCQYGSPPCSFGQGTKLEIK 108

RESULT 4
US-10-041-860-375
; Sequence 375, Application US/10041860
; Publication No. US20030157109A1
; GENERAL INFORMATION:
; APPLICANT: Corvalan, Jose R.F.

; APPLICANT: Jia, Xiao-Chi
; APPLICANT: Feng, Xiao
; APPLICANT: Yang, Xiao-Dong
; APPLICANT: Chen, Francine
; APPLICANT: Gazit, Gadi
; APPLICANT: Weber, Richard
; APPLICANT: Bezabeh, Binyam
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: AGENIX.051A
; CURRENT APPLICATION NUMBER: US/10/041.860
; CURRENT FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 377
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 375
; LENGTH: 108
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-041-860-375

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Best Local Similarity 100.0%; Pred. No. 4.5e-40;
Matches 108; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSYLAWYQKPGQAPRLLIYATSSRATGIP 60
Qy 61 DRFSGSGGTDFTLTISRLEPEDFAVYYCQYGSPPCSFGQGTKLEIK 108
Db 61 DRFSGSGGTDFTLTISRLEPEDFAVYYCQYGSPPCSFGQGTKLEIK 108

RESULT 5
US-10-665-383-4
; Sequence 4, Application US/10665383
; Publication No. US20040141969A1
; GENERAL INFORMATION:
; APPLICANT: Floege, Juergen
; APPLICANT: Gazit, Gadi
; APPLICANT: Key, Bruce
; APPLICANT: LaRoche, William
; APPLICANT: Lichenstein, Henri
; TITLE OF INVENTION: METHOD FOR THE TREATMENT OF NEPHRITIS
; TITLE OF INVENTION: USING ANTI-PDGF-DD ANTIBODIES
; FILE REFERENCE: AGENIX.052A
; CURRENT APPLICATION NUMBER: US/10/665.383
; CURRENT FILING DATE: 2003-09-16
; PRIOR APPLICATION NUMBER: 60/411,137
; PRIOR FILING DATE: 2002-09-16
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 108
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-665-383-4

Query Match 100.0%; Score 558; DB 4; Length 108;
Best Local Similarity 100.0%; Pred. No. 4.5e-40;
Matches 108; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSYLAWYQKPGQAPRLLIYATSSRATGIP 60
Qy 61 DRFSGSGGTDFTLTISRLEPEDFAVYYCQYGSPPCSFGQGTKLEIK 108
Db 61 DRFSGSGGTDFTLTISRLEPEDFAVYYCQYGSPPCSFGQGTKLEIK 108

RESULT 6
US-10-891-658-84

; Sequence 84, Application US/10891658
; Publication No. US20050074821A1
; GENERAL INFORMATION:
; APPLICANT: Kenneth, Wild
; APPLICANT: Treanor, James
; APPLICANT: Huang, Haichun
; APPLICANT: Inoue, Heather
; APPLICANT: Zhang, Tie J.
; APPLICANT: Martin, Frank
; TITLE OF INVENTION: Human anti-NGF Neutralizing Antibodies as Selective NGF Pathway
; TITLE OF INVENTION: Inhibitors
; FILE REFERENCE: 02-1240
; CURRENT APPLICATION NUMBER: US/10/891,658
; CURRENT FILING DATE: 2004-07-15
; PRIOR APPLICATION NUMBER: US 60/487,431
; PRIOR FILING DATE: 2003-07-15
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 84
; LENGTH: 108
; TYPE: PRT
; ORGANISM: homo sapien
US-10-891-658-84

Query Match 95.9%; Score 535; DB 5; Length 108;
Best Local Similarity 96.3%; Pred. No. 4.1e-38;
Matches 104; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy	1	EIVLTQSPGTLSLSPGERATLSCRASQSVSSSYLAWYQQKPKQAPRLIIYATSSRATGIP	60
Db	1	EIVLTQSPGTLSLSPGERATLSCRASQSVSSSYLAWYQQKPKQAPRLIIYVASSRATGIP	60
Qy	61	DRFSGSGSGTDFTLTISRLEPEDFAVYQCQQYGSSPCFQGQTKLEIK	108
Db	61	DRFSGSGSGTDFTLTISRLEPEDFAVYQCQQYGSSPYTFQGQTKLEIK	108

RESULT 7
US-10-891-658-131
; Sequence 131, Application US/10891658
; Publication No. US20050074821A1
; GENERAL INFORMATION:
; APPLICANT: Kenneth, Wild
; APPLICANT: Treanor, James
; APPLICANT: Huang, Haichun
; APPLICANT: Inoue, Heather
; APPLICANT: Zhang, Tie J.
; APPLICANT: Martin, Frank
; TITLE OF INVENTION: Human anti-NGF Neutralizing Antibodies as Selective NGF Pathway
; TITLE OF INVENTION: Inhibitors
; FILE REFERENCE: 02-1240
; CURRENT APPLICATION NUMBER: US/10/891,658
; CURRENT FILING DATE: 2004-07-15
; PRIOR APPLICATION NUMBER: US 60/487,431
; PRIOR FILING DATE: 2003-07-15
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 131
; LENGTH: 108
; TYPE: PRT
; ORGANISM: homo sapien
US-10-891-658-131

Query Match 95.9%; Score 535; DB 5; Length 108;
Best Local Similarity 96.3%; Pred. No. 4.1e-38;
Matches 104; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy	1	EIVLTQSPGTLSLSPGERATLSCRASQSVSSSYLAWYQQKPKQAPRLIIYATSSRATGIP	60
Db	1 <th>EIVLTQSPGTLSLSPGERATLSCRASQSVSSSYLAWYQQKPKQAPRLIIYGASSRATGIP</th> <th>60</th>	EIVLTQSPGTLSLSPGERATLSCRASQSVSSSYLAWYQQKPKQAPRLIIYGASSRATGIP	60
Qy	61	DRFSGSGSGTDFTLTISRLEPEDFAVYQCQQYGSSPCFQGQTKLEIK	108

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RESULT 10
US-10-693-629-46
; Sequence 46, Application US/10693629
; Publication No. US20040120948A1
; GENERAL INFORMATION:
; APPLICANT: KIRIN BEER KABUSHIKI KAISHA
; APPLICANT: MIKAYAMA, Toshifumi
; APPLICANT: YOSHIDA, Hitoshi
; APPLICANT: FORCE, Walker, R.
; APPLICANT: CHEN, Xingjie
; APPLICANT: TAKAHASHI, Nobuaki
; TITLE OF INVENTION: ANTI CD40 MONOCLONAL ANTIBODY
; FILE REFERENCE: 021286-0306473
; CURRENT APPLICATION NUMBER: US/10/693,629
; PRIOR FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: PCT/US01/13672
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US09/844,684
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: JP2001/142482
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: JP2001/310535
; PRIOR FILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: US10/040,244
; PRIOR FILING DATE: 2001-10-26
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 46
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-693-629-46

Query Match          95.5%; Score 533; DB 4; Length 130;
Best Local Similarity 95.4%; Pred. No. 7.3e-38;
Matches 103; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKPKGQAPRLLIYATSSRATGIP 60
Db 21 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKPKGQAPRLLIYATSSRATGIP 80

Qy 61 DRFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSPFCFGQGTKLEIK 108
Db 81 DRFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSPITFGQGTKLEIK 128

RESULT 11
US-10-307-724-123
; Sequence 123, Application US/10307724
; Publication No. US20030232972A1
; GENERAL INFORMATION:
; APPLICANT: Bowdish, Katherine S.
; APPLICANT: Frederickson, Shana
; APPLICANT: Renshaw, Mark
; TITLE OF INVENTION: RATIONALLY DESIGNED ANTIBODIES
; FILE REFERENCE: 1087-2c1p
; CURRENT APPLICATION NUMBER: US/10/307,724
; CURRENT FILING DATE: 2002-12-02
; PRIOR APPLICATION NUMBER: US 60/251,448
; PRIOR FILING DATE: 2000-12-05
; PRIOR APPLICATION NUMBER: US 60/288,889
; PRIOR FILING DATE: 2001-05-04
; PRIOR APPLICATION NUMBER: US 60/294,068
; PRIOR FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: US 10/006,593
; NUMBER OF SEQ ID NOS: 134
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 123
; LENGTH: 108
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: antibody light chain variable region
US-10-307-724-123

Query Match          95.3%; Score 532; DB 5; Length 108;
Best Local Similarity 95.4%; Pred. No. 7.4e-38;
Matches 103; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKPKGQAPRLLIYATSSRATGIP 60
Db 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKPKGQAPRLLIYATSSRATGIP 60

Qy 61 DRFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSPFCFGQGTKLEIK 108
Db 61 DRFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSPITFGQGTKLEIK 108

RESULT 12
US-10-737-290-123
; Sequence 123, Application US/10737290
; Publication No. US20040253242A1
; GENERAL INFORMATION:
; APPLICANT: Bowdish, Katherine S.
; APPLICANT: Frederickson, Shana
; APPLICANT: Renshaw, Mark
; APPLICANT: Orenicia, Cecilia
; TITLE OF INVENTION: RATIONALLY DESIGNED ANTIBODIES
; FILE REFERENCE: 1087-2 CIP III
; CURRENT APPLICATION NUMBER: US/10/737,290
; CURRENT FILING DATE: 2003-12-15
; PRIOR APPLICATION NUMBER: US 10/452,590
; PRIOR FILING DATE: 2003-06-02
; PRIOR APPLICATION NUMBER: US 10/307,724
; PRIOR FILING DATE: 2002-12-02
; PRIOR APPLICATION NUMBER: US 10/006,593
; PRIOR FILING DATE: 2001-12-05
; PRIOR APPLICATION NUMBER: US 60/251,448
; PRIOR FILING DATE: 2000-12-05
; PRIOR APPLICATION NUMBER: US 60/288,889
; PRIOR FILING DATE: 2001-05-04
; PRIOR APPLICATION NUMBER: US 60/294,068
; PRIOR FILING DATE: 2001-05-29
; NUMBER OF SEQ ID NOS: 193
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 123
; LENGTH: 108
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: antibody light chain variable region
US-10-737-290-123

Query Match          95.3%; Score 532; DB 5; Length 108;
Best Local Similarity 95.4%; Pred. No. 7.4e-38;
Matches 103; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKPKGQAPRLLIYATSSRATGIP 60
Db 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKPKGQAPRLLIYATSSRATGIP 60

Qy 61 DRFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSPFCFGQGTKLEIK 108
Db 61 DRFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSPITFGQGTKLEIK 108

RESULT 13
US-10-725-962-27
; Sequence 27, Application US/10725962
; Publication No. US20050013809A1
; GENERAL INFORMATION:
; APPLICANT: Samuel M. Owens
; APPLICANT: Frank I. Carroll
; APPLICANT: Philip Abraham
; APPLICANT: Melinda G. Gunnell
```

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; APPLICANT: Mary Haak-Frendscho
; APPLICANT: Xiao Feng
; TITLE OF INVENTION: ANTIBODIES AGAINST DRUGS OF ABUSE
; FILE REFERENCE: ABGENIX 071A
; CURRENT APPLICATION NUMBER: US/10/725,962
; CURRENT FILING DATE: 2003-12-02
; PRIOR APPLICATION NUMBER: 60/430717
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 141
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-725-962-27

Query Match          95.3%; Score 532; DB 5; Length 109;
Best Local Similarity 95.4%; Pred. No. 7.4e-38;
Matches 103; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKQPGQAPRLLIYATSSRATGIP 60
Db 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKQPGQAPRLLIYATSSRATGIP 60

QY 61 DRFSGSGGTDFTLTISRLEPEDFAVYCCQYGSSPCSFQGTQKLEIK 108
Db 61 DRFSGSGGTDFTLTISRLEPEDFAVYCCQYGSSPCSFQGTQKLEIK 108

RESULT 14
US-10-506-743-2
; Sequence 2, Application US/10506743
; Publication No. US20050106140A1
; GENERAL INFORMATION:
; APPLICANT: Lancaster, Joanne Sloan
; TITLE OF INVENTION: Antagonistic Anti-hFas Ligand Human Antibodies and Fragments
; FILE REFERENCE: X15450 - National Stage
; CURRENT APPLICATION NUMBER: US/10/506,743
; CURRENT FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 60/367,054
; PRIOR FILING DATE: 2002-03-21
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 120
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-506-743-2

Query Match          95.3%; Score 532; DB 5; Length 120;
Best Local Similarity 95.4%; Pred. No. 8.2e-38;
Matches 103; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKQPGQAPRLLIYATSSRATGIP 60
Db 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKQPGQAPRLLIYATSSRATGIP 60

QY 61 DRFSGSGGTDFTLTISRLEPEDFAVYCCQYGSSPCSFQGTQKLEIK 108
Db 61 DRFSGSGGTDFTLTISRLEPEDFAVYCCQYGSSPCSFQGTQKLEIK 108

RESULT 15
US-10-737-290-161
; Sequence 161, Application US/10737290
; Publication No. US20040253242A1
; GENERAL INFORMATION:
; APPLICANT: Bowdish, Katherine S.
; APPLICANT: Frederickson, Shana
; APPLICANT: Renshaw, Mark
; APPLICANT: Orecchia, Cecilia
; TITLE OF INVENTION: RATIONALLY DESIGNED ANTIBODIES
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; FILE REFERENCE: 1087-2 CIP III
; CURRENT APPLICATION NUMBER: US/10/737,290
; CURRENT FILING DATE: 2003-12-15
; PRIOR APPLICATION NUMBER: US 10/452,590
; PRIOR FILING DATE: 2003-06-02
; PRIOR APPLICATION NUMBER: US 10/307,724
; PRIOR FILING DATE: 2002-12-02
; PRIOR APPLICATION NUMBER: US 10/006,593
; PRIOR FILING DATE: 2001-12-05
; PRIOR APPLICATION NUMBER: US 60/251,448
; PRIOR FILING DATE: 2000-12-05
; PRIOR APPLICATION NUMBER: US 60/288,889
; PRIOR FILING DATE: 2001-05-04
; PRIOR APPLICATION NUMBER: US 60/294,068
; PRIOR FILING DATE: 2001-05-29
; NUMBER OF SEQ ID NOS: 193
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 161
; LENGTH: 130
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: recombinant Ab Vκ
US-10-737-290-161

Query Match          95.3%; Score 532; DB 5; Length 130;
Best Local Similarity 95.4%; Pred. No. 8.8e-38;
Matches 103; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKQPGQAPRLLIYATSSRATGIP 60
Db 23 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKQPGQAPRLLIYATSSRATGIP 82

QY 61 DRFSGSGGTDFTLTISRLEPEDFAVYCCQYGSSPCSFQGTQKLEIK 108
Db 83 DRFSGSGGTDFTLTISRLEPEDFAVYCCQYGSSPCSFQGTQKLEIK 130

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OM protein - protein search, using sw model

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Title: US-10-041-860-49
Perfect score: 558
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Total number of hits satisfying chosen parameters: 250354

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: /SIDSS/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
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3	530	95.0	384	11	US-11-000-463-806
4	530	95.0	384	11	US-11-000-463-807
5	529	94.8	109	9	US-10-834-397-16
6	528	94.6	247	11	US-11-056-825-8
7	528	94.6	249	11	US-11-056-825-4
8	526	94.3	108	9	US-10-850-635-6
9	525.5	94.2	131	9	US-10-721-763-27
10	524	93.9	108	9	US-10-850-635-4
11	524	93.9	108	11	US-11-051-453-58
12	524	93.9	128	11	US-11-051-453-60
13	523	93.7	108	10	US-11-211-317-113
14	521	93.4	235	11	US-11-128-900-14
15	521	93.4	235	11	US-11-128-900-65
16	520	93.2	108	9	US-10-982-440-32
17	520	93.2	108	9	US-10-982-440-36
18	518	92.8	108	11	US-11-064-174-178
19	514.5	92.2	113	11	US-11-049-536-104
20	514.5	92.2	113	11	US-11-199-739-104
21	513	91.9	291	11	US-11-041-095-60

Sequence 134, App
Sequence 74, Appl
Sequence 332, App
Sequence 334, App
Sequence 168, App
Sequence 1499, App
Sequence 1499, App
Sequence 1264, App
Sequence 1264, App
Sequence 58, Appl
Sequence 1219, App
Sequence 1219, App
Sequence 592, App
Sequence 592, App
Sequence 16, Appl
Sequence 236, App
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Sequence 82, Appl
Sequence 82, Appl
Sequence 368, App
Sequence 368, App
Sequence 31, Appl
Sequence 32, Appl

ALIGNMENTS

RESULT 1
US-11-000-463-804
; Sequence 804, Application US/11000463
; Publication No. US20050266423A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Chen, Rui-hong
; APPLICANT: Qian, Xuehong B.
; APPLICANT: Wang, Zhiwei
; APPLICANT: Wehrman, Tom
; APPLICANT: Zhang, Jie
; APPLICANT: Zhou, Ping
; APPLICANT: Cao, Yi-Cheng
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
; FILE REFERENCE: 785CIP4CN
; CURRENT APPLICATION NUMBER: US/11/000.463
; CURRENT FILING DATE: 2004-11-29
; PRIOR APPLICATION NUMBER: 10/291,265
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 09/922,279
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: 09/617,746
; PRIOR FILING DATE: 2000-07-17
; PRIOR APPLICATION NUMBER: 09/631,451
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: 09/633,870
; PRIOR FILING DATE: 2000-09-15
; NUMBER OF SEQ ID NOS: 944
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 804
; LENGTH: 384
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-000-463-804

Query Match 95.0%; Score 530; DB 11; Length 384;
Best Local Similarity 94.4%; Pred. No. 8.5e-37;

Matches 102; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

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|||||
Db 170 EIVLTQSPGTLISLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLIYGASSRATGIP 229
|||||

Qy 61 DRFSGSGGTDFLTISRLEPEDFAVYCCQYGSPPCSFGQGTKEIK 108
|||||
Db 230 DRFSGSGGTDFLTISRLEPEDFAVYCCQYGSPTTFGGQTKVDIK 277
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RESULT 2

US-11-000-463-805

; Sequence 805, Application US/110000463

; Publication No. US20050266423A1

; GENERAL INFORMATION:

; APPLICANT: Tang, Y Tom

; APPLICANT: Liu, Chenghua

; APPLICANT: Asundi, Vinod

; APPLICANT: Chen, Rui-hong

; APPLICANT: Qian, Xiaohong B.

; APPLICANT: Wang, Zhiwei

; APPLICANT: Wehrman, Tom

; APPLICANT: Zhang, Jie

; APPLICANT: Zhou, Ping

; APPLICANT: Cao, Yi-Cheng

; APPLICANT: Drmanac, Radoje T.

; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides

; FILE REFERENCE: 785CIP4CN

; CURRENT APPLICATION NUMBER: US/11/000,463

; CURRENT FILING DATE: 2004-11-29

; PRIOR APPLICATION NUMBER: 10/291,265

; PRIOR FILING DATE: 2002-11-08

; PRIOR APPLICATION NUMBER: PCT/US01/02623

; PRIOR FILING DATE: 2001-01-25

; PRIOR APPLICATION NUMBER: 09/922,279

; PRIOR FILING DATE: 2001-08-03

; PRIOR APPLICATION NUMBER: 09/491,404

; PRIOR FILING DATE: 2000-01-25

; PRIOR APPLICATION NUMBER: 09/617,746

; PRIOR FILING DATE: 2000-07-17

; PRIOR APPLICATION NUMBER: 09/631,451

; PRIOR FILING DATE: 2000-08-03

; PRIOR APPLICATION NUMBER: 09/633,870

; PRIOR FILING DATE: 2000-09-15

; NUMBER OF SEQ ID NOS: 944

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 805

; LENGTH: 384

; TYPE: PRT

; ORGANISM: Homo sapiens

US-11-000-463-805

Query Match 95.0%; Score 530; DB 11; Length 384;
Best Local Similarity 94.4%; Pred. No. 8.5e-37;
Matches 102; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

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Db 170 EIVLTQSPGTLISLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLIYGASSRATGIP 229
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Qy 61 DRFSGSGGTDFLTISRLEPEDFAVYCCQYGSPPCSFGQGTKEIK 108
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Db 230 DRFSGSGGTDFLTISRLEPEDFAVYCCQYGSPTTFGGQTKVDIK 277
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RESULT 3

US-11-000-463-806

; Sequence 806, Application US/110000463

; Publication No. US20050266423A1

; GENERAL INFORMATION:

; APPLICANT: Tang, Y Tom

; APPLICANT: Liu, Chenghua

; APPLICANT: Asundi, Vinod
; APPLICANT: Chen, Rui-hong B.
; APPLICANT: Qian, Xiaohong B.
; APPLICANT: Wang, Zhiwei
; APPLICANT: Wehrman, Tom
; APPLICANT: Zhang, Jie
; APPLICANT: Zhou, Ping
; APPLICANT: Cao, Yi-Cheng
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
; FILE REFERENCE: 785CIP4CN
; CURRENT APPLICATION NUMBER: US/11/000,463
; CURRENT FILING DATE: 2004-11-29
; PRIOR APPLICATION NUMBER: 10/291,265
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 09/922,279
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: 09/617,746
; PRIOR FILING DATE: 2000-07-17
; PRIOR APPLICATION NUMBER: 09/631,451
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: 09/633,870
; PRIOR FILING DATE: 2000-09-15
; NUMBER OF SEQ ID NOS: 944
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 806
; LENGTH: 384
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-000-463-806

Query Match 95.0%; Score 530; DB 11; Length 384;
Best Local Similarity 94.4%; Pred. No. 8.5e-37;
Matches 102; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLIYATSSRATGIP 60
|||||
Db 170 EIVLTQSPGTLISLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLIYGASSRATGIP 229
|||||

Qy 61 DRFSGSGGTDFLTISRLEPEDFAVYCCQYGSPPCSFGQGTKEIK 108
|||||
Db 230 DRFSGSGGTDFLTISRLEPEDFAVYCCQYGSPTTFGGQTKVDIK 277
|||||

RESULT 4

US-11-000-463-807

; Sequence 807, Application US/110000463

; Publication No. US20050266423A1

; GENERAL INFORMATION:

; APPLICANT: Tang, Y Tom

; APPLICANT: Liu, Chenghua

; APPLICANT: Asundi, Vinod

; APPLICANT: Chen, Rui-hong

; APPLICANT: Qian, Xiaohong B.

; APPLICANT: Wang, Zhiwei

; APPLICANT: Wehrman, Tom

; APPLICANT: Zhang, Jie

; APPLICANT: Zhou, Ping

; APPLICANT: Drmanac, Radoje T.

; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides

; FILE REFERENCE: 785CIP4CN

; CURRENT APPLICATION NUMBER: US/11/000,463

; CURRENT FILING DATE: 2004-11-29

; PRIOR APPLICATION NUMBER: 10/291,265

; PRIOR FILING DATE: 2002-11-08

; PRIOR APPLICATION NUMBER: PCT/US01/02623

; PRIOR FILING DATE: 2001-01-25

; PRIOR APPLICATION NUMBER: 09/922,279

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/ PRIOR FILING DATE: 2001-08-03
/ PRIOR APPLICATION NUMBER: 09/491,404
/ PRIOR FILING DATE: 2000-01-25
/ PRIOR APPLICATION NUMBER: 09/617,746
/ PRIOR FILING DATE: 2000-07-17
/ PRIOR APPLICATION NUMBER: 09/631,451
/ PRIOR FILING DATE: 2000-08-03
/ PRIOR APPLICATION NUMBER: 09/633,870
/ PRIOR FILING DATE: 2000-09-15
/ NUMBER OF SEQ ID NOS: 944
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 807
/ LENGTH: 384
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-11-000-463-807

Query Match          95.0%; Score 530; DB 11; Length 384;
Best Local Similarity 94.4%; Pred. No. 8.5e-37;
Matches 102; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYATSSRATGIP 60
DB 170 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYATSSRATGIP 229
QY 61 DRFGSGSGTDTLTISRLEPEDFAVYYCQQYSSPCSFQGTKEIK 108
DB 230 DRFGSGSGTDTLTISRLEPEDFAVYYCQQYSSPCSFQGTKEIK 277

RESULT 5
US-10-834-397-16
/ Sequence 16, Application US/10834397
/ Publication No. US20060003334A1
/ GENERAL INFORMATION:
/ APPLICANT: Knappik, Achim
/ Pack, Peter
/ Ilag, Vic
/ Ge, Liming
/ Moroney, Simon
/ Plueckthun, Andreas
/ TITLE OF INVENTION: Protein/(Poly)peptide libraries
/ NUMBER OF SEQUENCES: 373
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: James F. Haley, Jr., Esq. c/o Fish & Neave
/ STREET: 1251 Avenue of the Americas
/ CITY: New York
/ STATE: New York
/ COUNTRY: USA
/ ZIP: 10021
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.30 (EPO)
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/10/834,397
/ FILING DATE: 29-Apr-2004
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US/09/490,324
/ FILING DATE: 24-Jan-2000
/ APPLICATION NUMBER: US/09/025,769
/ FILING DATE: 18-FEB-1998
/ APPLICATION NUMBER: EP 95 11 3021.0
/ FILING DATE: 18-AUG-1995
/ ATTORNEY/AGENT INFORMATION:
/ NAME: James F. Haley, Jr., Esq.
/ REGISTRATION NUMBER: 27,794
/ REFERENCE/DOCKET NUMBER: MORPHO/5
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (212)596-9000
/ TELEFAX: (212)596-9090
/ INFORMATION FOR SEQ ID NO: 16:
```

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/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 109 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: <Unknown>
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-10-834-397-16

Query Match          94.8%; Score 529; DB 9; Length 109;
Best Local Similarity 94.4%; Pred. No. 3.4e-37;
Matches 102; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYATSSRATGIP 60
DB 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYATSSRATGIP 60
QY 61 DRFGSGSGTDTLTISRLEPEDFAVYYCQQYSSPCSFQGTKEIK 108
DB 61 DRFGSGSGTDTLTISRLEPEDFAVYYCQQYSSPCSFQGTKEIK 108

RESULT 6
US-11-056-825-8
/ Sequence 8, Application US/11056825
/ Publication No. US20050255109A1
/ GENERAL INFORMATION:
/ APPLICANT: Felding-Habermann, Brunhilde
/ APPLICANT: Janda, Kim D.
/ APPLICANT: Saven, Alan
/ TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INHIBITION OF METASTASIS
/ FILE REFERENCE: SCRP-0042
/ CURRENT APPLICATION NUMBER: US/11/056,825
/ CURRENT FILING DATE: 2005-02-11
/ PRIOR APPLICATION NUMBER: US 60/626,726
/ PRIOR FILING DATE: 2004-11-10
/ PRIOR APPLICATION NUMBER: US 60/544,807
/ PRIOR FILING DATE: 2004-02-13
/ NUMBER OF SEQ ID NOS: 13
/ SOFTWARE: Patent In version 3.3
/ SEQ ID NO 8
/ LENGTH: 247
/ TYPE: PRT
/ ORGANISM: Artificial
/ FEATURE:
/ OTHER INFORMATION: Synthetic Construct
US-11-056-825-8

Query Match          94.6%; Score 528; DB 11; Length 247;
Best Local Similarity 94.4%; Pred. No. 8.5e-37;
Matches 102; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYATSSRATGIP 60
DB 127 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYATSSRATGIP 186
QY 61 DRFGSGSGTDTLTISRLEPEDFAVYYCQQYSSPCSFQGTKEIK 108
DB 187 DRFGSGSGTDTLTISRLEPEDFAVYYCQQYSSPCSFQGTKEIK 234

RESULT 7
US-11-056-825-4
/ Sequence 4, Application US/11056825
/ Publication No. US20050255109A1
/ GENERAL INFORMATION:
/ APPLICANT: Felding-Habermann, Brunhilde
/ APPLICANT: Janda, Kim D.
/ APPLICANT: Saven, Alan
/ TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INHIBITION OF METASTASIS
/ FILE REFERENCE: SCRP-0042
/ CURRENT APPLICATION NUMBER: US/11/056,825
/ CURRENT FILING DATE: 2005-02-11
```

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; PRIOR APPLICATION NUMBER: US 60/626,726
; PRIOR FILING DATE: 2004-11-10
; PRIOR APPLICATION NUMBER: US 60/544,807
; PRIOR FILING DATE: 2004-02-13
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: Patent in version 3.3
; SEQ ID NO 4
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-11-056-825-4

Query Match          94.6%; Score 528; DB 11; Length 249;
Best Local Similarity 94.4%; Pred. No. 8.5e-37;
Matches 102; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLIIYATSSRATGIP 60
Db 127 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLIIYATSSRATGIP 186

Qy 61 DRFSGSGSGTDFTLTISRLEPEDFAVYYCQYGSSPCSFQGGTKLEIK 108
Db 187 DRFSGSGSGTDFTLTISRLEPEDFAVYYCQYGSSPCSFQGGTKVDIK 234

RESULT 8
US-10-850-635-6
; Sequence 6, Application US/10850635
; Publication No. US20050287149A1
; GENERAL INFORMATION:
; APPLICANT: Keler, Tibor
; APPLICANT: Lowy, Israel
; APPLICANT: Vitale, Laura
; APPLICANT: Blanset, Diane
; TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES AGAINST
; TITLE OF INVENTION: BACILLUS ANTHRACIS PROTECTIVE ANTIGEN
; FILE REFERENCE: MXI-305
; CURRENT APPLICATION NUMBER: US/10/850,635
; CURRENT FILING DATE: 2004-05-21
; PRIOR APPLICATION NUMBER: 60/472636
; PRIOR FILING DATE: 2003-05-21
; PRIOR APPLICATION NUMBER: 60/512336
; PRIOR FILING DATE: 2003-10-16
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 108
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-850-635-6

Query Match          94.3%; Score 526; DB 9; Length 108;
Best Local Similarity 95.4%; Pred. No. 6e-37;
Matches 103; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLIIYATSSRATGIP 60
Db 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLIIYATSSRATGIP 60

Qy 61 DRFSGSGSGTDFTLTISRLEPEDFAVYYCQYGSSPCSFQGGTKLEIK 108
Db 61 DRFSGSGSGTDFTLTISRLEPEDFAVYYCQYGSSMYTFQGGTKLEIK 108

RESULT 9
US-10-721-763-27
; Sequence 27, Application US/10721763
; Publication No. US20050249729A1
; GENERAL INFORMATION:
; APPLICANT: KIRIN BEER KABUSHIKI KAISHA
; TITLE OF INVENTION: ANTI TRAIL-R ANTIBODY

; FILE REFERENCE: PH-1573-PCT
; CURRENT APPLICATION NUMBER: US/10/721,763
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: JP2001-150213
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: JP2001-243040
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: JP2001-314489
; PRIOR FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 27
; LENGTH: 131
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-721-763-27

Query Match          94.2%; Score 525.5; DB 9; Length 131;
Best Local Similarity 95.4%; Pred. No. 7.8e-37;
Matches 104; Conservative 1; Mismatches 3; Indels 1; Gaps 1;

Qy 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLIIYATSSRATGIP 60
Db 21 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLIIYATSSRATGIP 80

Qy 61 DRFSGSGSGTDFTLTISRLEPEDFAVYYCQYGSSPC-SFGQGGTKLEIK 108
Db 81 DRFSGSGSGTDFTLTISRLEPEDFAVYYCQYGSSPLYTFQGGTKLEIK 129

RESULT 10
US-10-850-635-4
; Sequence 4, Application US/10850635
; Publication No. US20050287149A1
; GENERAL INFORMATION:
; APPLICANT: Keler, Tibor
; APPLICANT: Lowy, Israel
; APPLICANT: Vitale, Laura
; APPLICANT: Blanset, Diane
; TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES AGAINST
; TITLE OF INVENTION: BACILLUS ANTHRACIS PROTECTIVE ANTIGEN
; FILE REFERENCE: MXI-305
; CURRENT APPLICATION NUMBER: US/10/850,635
; CURRENT FILING DATE: 2004-05-21
; PRIOR APPLICATION NUMBER: 60/472636
; PRIOR FILING DATE: 2003-05-21
; PRIOR APPLICATION NUMBER: 60/512336
; PRIOR FILING DATE: 2003-10-16
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 108
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-850-635-4

Query Match          93.9%; Score 524; DB 9; Length 108;
Best Local Similarity 94.4%; Pred. No. 8.8e-37;
Matches 102; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLIIYATSSRATGIP 60
Db 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLIIYATSSRATGIP 60

Qy 61 DRFSGSGSGTDFTLTISRLEPEDFAVYYCQYGSSPCSFQGGTKLEIK 108
Db 61 DRFSGSGSGTDFTLTISRLEPEDFAVYYCQYGSSPPTFGGTVKEIK 108

RESULT 11
US-11-051-453-58
; Sequence 58, Application US/11051453
; Publication No. US20050287150A1
```

```

: GENERAL INFORMATION:
: APPLICANT: AMEROSINO, DONNA
: APPLICANT: BABCOCK, GREGORY J.
: APPLICANT: BROERING, THERESA
: APPLICANT: GRAZIANO, ROBERT
: APPLICANT: HERNANDEZ, HECTOR JAVIER
: APPLICANT: LOWY, ISRAEL
: APPLICANT: MANDELL, ROBERT
: APPLICANT: MOLRINE, DEBORAH
: APPLICANT: THOMAS, JR., WILLIAM D.
: APPLICANT: ZHANG, HUI-PEN
: TITLE OF INVENTION: ANTIBODIES AGAINST CLOSTRIDIUM DIFFICILE TOXINS AND
: TITLE OF INVENTION: USES THEREOF
: FILE REFERENCE: MJ1-001
: CURRENT APPLICATION NUMBER: US/11/051,453
: CURRENT FILING DATE: 2005-02-04
: PRIOR APPLICATION NUMBER: 60/542,357
: PRIOR FILING DATE: 2004-02-06
: PRIOR APPLICATION NUMBER: 60/613,854
: PRIOR FILING DATE: 2004-09-28
: NUMBER OF SEQ ID NOS: 82
: SOFTWARE: Patent In Ver. 3.3
: SEQ ID NO 58
: LENGTH: 108
: TYPE: PRT
: ORGANISM: Homo sapiens
: US-11-051-453-58

Query Match          93.9%; Score 524; DB 11; Length 108;
Best Local Similarity 94.4%; Pred. No. 8.8e-37;
Matches 102; Conservative 2; Mismatches 4; Indels 0; Gaps

QY      1  EIVLTSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYATSSRATGIP
      |||
Db       1  EIVLTSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYGNSSRATGIP
      |||

QY      61  DRFSGSGGDTFTLTISRLEPEDFAVYQCOYGSSPCSPGQTKLEIK 108
      |||
Db       61  DRFSGSGGDTFTLTISRLEPEDFAVYQCOYGSSWTGQCKYVEIK 108
      |||

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Query Match	93.9%;	Score 524;	DB 11;	Length 128;
Best Local Similarity	94.4%;	Pred. No. 1.e-36;		
Matches 102;	Conservative 2;	Mismatches 4;	Indels 0;	Gaps 0;

QY	1	EIVLTQSPGTLSLSPGERATLSCRASQSVSSSYLA	WYQKPGQAPRLIIYATSSRATGIP 60
Db	21	EIVLTQSPGTLSLSPGERATLSCRASQSVSSSYLA	WYQKPGQAPRLIIYATSSRATGIP 80
QY	61	DRFSGSGGTDTFTLTISRLEPEDFAVY	CCQYGGSPCSFGQGTGLEIK 108
Db	81	DRFSGSGGTDTFTLTISRLEPEDFAVY	CCQYGGSPCSFGQGTGLEIK 128

RESULT 13

US-11-211-917-113

; Sequence 113, Application US/11211917

; Publication No. US20060093600A1

; GENERAL INFORMATION:

; APPLICANT: BEDIAN, VAHE

; APPLICANT: GLADUE, RONALD P.

; APPLICANT: CORVALAN, JOSE

; APPLICANT: JIA, XIAO-CHI

; APPLICANT: PENG, XIAO

; TITLE OF INVENTION: ANTIBODIES TO CD40

; FILE REFERENCE: ABX-PF/3 US

; CURRENT APPLICATION NUMBER: US/11/211,917

; CURRENT FILING DATE: 2005-08-25

; PRIOR APPLICATION NUMBER: US/10/292,088

; PRIOR FILING DATE: 2002-11-08

; PRIOR APPLICATION NUMBER: 60/348,980

; PRIOR FILING DATE: 2001-11-09

; NUMBER OF SEQ ID NOS: 147

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 113

; LENGTH: 108

; TYPE: PRT

; ORGANISM: Homo sapiens

US-11-211-917-113

Query Match	93.7%;	Score 523;	DB 10;	Length 108;
Best Local Similarity	93.5%;	Pred. No. 1.1e-36;		
Matches 101;	Conservative 3;	Mismatches 4;	Indels 0;	Gaps 0;

QY	1	EIVLTQSPGTLSLSPGERATLSCRASQSVSSSYLA	WYQKPGQAPRLIIYATSSRATGIP 60
Db	1	EIVLTQSPGTLSLSPGERATLSCRASQSVSSSYLA	WYQKPGQAPRLIIYATSSRATGIP 60
QY	61	DRFSGSGGTDTFTLTISRLEPEDFAVY	CCQYGGSPCSFGQGTGLEIK 108
Db	61	DRFSGSGGTDTFTLTISRLEPEDFAVY	CCQYGGSPCSFGQGTGLEIK 108

RESULT 14

US-11-128-900-14

; Sequence 14, Application US/11128900

; Publication No. US20050287136A1

; GENERAL INFORMATION:

; APPLICANT: HANSON, DOUGLAS C.

; APPLICANT: NEVEU, MARK J.

; APPLICANT: MOELLER, EILEEN E.

; APPLICANT: HANKE, JEFFREY H.

; APPLICANT: GILMAN, STEVEN C.

; APPLICANT: DAVIS, C. GEOPFREY

; APPLICANT: CORVALAN, JOSE R.

; TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO CTLA-4

; FILE REFERENCE: ABX-PF1 DIV3

; CURRENT APPLICATION NUMBER: US/11/128,900

; CURRENT FILING DATE: 2005-05-12

; PRIOR APPLICATION NUMBER: US 10/776649

; PRIOR FILING DATE: 2004-02-10

; PRIOR APPLICATION NUMBER: US 10/612497

; PRIOR APPLICATION NUMBER: 2003-07-01

; PRIOR APPLICATION NUMBER: US 09/472087

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; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: US 60/113647
; PRIOR FILING DATE: 1998-12-23
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-128-900-14

Query Match          93.4%; Score 521; DB 11; Length 235;
Best Local Similarity 91.7%; Pred. No. 3.1e-36;
Matches 99; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLIYATSSRATGIP 60
   |||||
DB 21 EIVLTQSPGTLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLIYATSSRATGIP 80
   |||||

QY 61 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGSPCSFGQGTKEIK 108
   |||||
DB 81 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGSPCSFGQGTKEIK 128
   |||||

RESULT 15
US-11-128-900-65
; Sequence 65, Application US/11128900
; Publication No. US20050287136A1
; GENERAL INFORMATION:
; APPLICANT: HANSON, DOUGLAS C.
; APPLICANT: NEVEU, MARK J.
; APPLICANT: MUELLER, EILEEN E.
; APPLICANT: HANKE, JEFFREY H.
; APPLICANT: GILMAN, STEVEN C.
; APPLICANT: DAVIS, C. GEOFFREY
; APPLICANT: CORVALAN, JOSE R.
; TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO CTLA-4
; FILE REFERENCE: ABX-PFI DIV3
; CURRENT APPLICATION NUMBER: US/11/128,900
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/776649
; PRIOR FILING DATE: 2004-02-10
; PRIOR APPLICATION NUMBER: US 10/612497
; PRIOR APPLICATION NUMBER: 2003-07-01
; PRIOR APPLICATION NUMBER: US 09/472087
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: US 60/113647
; PRIOR FILING DATE: 1998-12-23
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 65
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-128-900-65

Query Match          93.4%; Score 521; DB 11; Length 235;
Best Local Similarity 91.7%; Pred. No. 3.1e-36;
Matches 99; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLIYATSSRATGIP 60
   |||||
DB 21 EIVLTQSPGTLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLIYATSSRATGIP 80
   |||||

QY 61 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGSPCSFGQGTKEIK 108
   |||||
DB 81 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGSPCSFGQGTKEIK 128
   |||||
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Search completed: May 15, 2006, 17:25:49
Job time : 18.1502 secs

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OM protein - protein search, using sw model

Run on: May 15, 2006, 16:59:17 ; Search time 21.7854 Seconds
(without alignments)
476.989 Million cell updates/sec

Title: US-10-041-860-49
Perfect score: 558
Sequence: 1 EIVLTQSPGTLSPGERAT.....COQYGSPPCSFGQGTKLEIK 108
Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 segs, 96216763 residues
Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR 80:.*
1: pir1:.*
2: pir2:.*
3: pir3:.*
4: pir4:.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	535	95.9	108	2	Ig kappa chain V-I
2	535	95.9	109	2	Ig kappa chain V-I
3	534	95.7	109	2	Ig kappa chain V-I
4	533	95.5	109	2	Ig kappa chain V-I
5	531	95.2	109	2	Ig kappa chain V-I
6	531	95.2	109	2	Ig kappa chain V-I
7	530	95.0	109	2	Ig kappa chain V-I
8	530	95.0	129	2	Ig light chain var
9	530	95.0	134	2	Ig kappa chain V-I
10	529	94.8	109	2	Ig kappa chain V-I
11	529	94.8	129	2	anti-Sm antibody V
12	528	94.6	129	1	K3HUA
13	527	94.4	128	2	S20636
14	526	94.3	129	1	K3HUI
15	524	93.9	109	1	K3HUI
16	524	93.9	109	2	F30607
17	523.5	93.8	114	2	S46375
18	521	93.4	109	1	K3HUI
19	520	93.2	109	1	A30608
20	515	92.3	109	2	G30607
21	514	92.1	107	2	PH0965
22	514	92.1	108	2	B30608
23	513	91.9	124	2	S20633
24	511	91.6	121	2	S40327
25	508	91.0	109	1	K3HUI
26	507	90.9	110	2	S20635
27	504.5	90.4	108	2	E30609
28	503.5	90.2	110	2	E30607
29	503	90.1	108	1	K3HUB6

30	502	90.0	109	2	F44151	Ig kappa chain V r
31	501.5	89.9	108	2	H44151	Ig kappa chain V r
32	500	89.6	109	1	K3HUGO	Ig kappa chain V-I
33	500	89.6	130	2	S20637	Ig kappa chain V r
34	499	89.4	129	2	A32274	Ig kappa chain pre
35	497.5	89.2	110	2	S44120	Ig kappa chain V-J
36	495	88.7	109	2	S47181	Ig kappa chain - h
37	488.5	87.5	104	2	PH0964	Ig kappa chain V r
38	488	87.5	215	2	JE0242	Ig kappa chain NIG
39	486.5	87.2	129	2	S40325	Ig kappa chain - h
40	485	86.9	96	2	A30601	Ig kappa chain V-I
41	485	86.9	116	2	B27594	Ig kappa chain pre
42	484	86.7	215	2	A23746	Ig kappa chain V-I
43	479	85.8	118	2	T03036	Ig light chain - h
44	477	85.5	108	2	S33988	Ig kappa chain V r
45	475	85.1	116	2	C27594	Ig kappa chain pre

ALIGNMENTS

RESULT 1

C30608
Ig kappa chain V-III region (Pie) - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 29-Jun-1989 #sequence_revision 29-Jun-1989 #text_change 09-Jul-2004
C:Accession: C30608
R:Goni, F.R.; Chen, P.P.; McGinnis, D.; Arjonilla, M.L.; Fernandez, J.; Carson, D.; Solc
J. Immunol. 142, 3158-3163, 1989
A:Title: Structural and idiotypic characterization of the L chains of human IgM autoantibodies
A:Reference number: A30601; MUID:89215279; PMID:2496160
A:Accession: C30608
A>Status: preliminary
A:Molecule type: protein
A:Residues: 1-108 <GON>
C:Cross-references: UNIPROT:Q9UL78; UNIPARC:UPI0000176AE3
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotetramer; immunoglobulin
P:16-91/Domain: immunoglobulin homology <IMM>

Query Match 95.9%; Score 535; DB 2; Length 108;
Best Local Similarity 96.3%; Pred. No. 3.8e-38;
Matches 104; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY	1	EIVLTQSPGTLSPGERATLSCRASQSVSSYLAWYQKPGQAPRLIYATSSRATGIP	60
Db	1	EIVLTQSPGTLSPGERATLSCRASQSVSSYLAWYQKPGQAPRLIYATSSRATGIP	60
QY	61	DRFGSGSGTDTLTISRLEPEDFAVYCCQYGSPPCSFGQGTKLEIK	108
Db	61	DRFGSGSGTDTLTISRLEPEDFAVYCCQYGSPPCSFGQGTKLEIK	108

RESULT 2

H30601
Ig kappa chain V-III region (Gar and Flo) - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 29-Jun-1989 #sequence_revision 29-Jun-1989 #text_change 21-Jan-2000
C:Accession: H30601; E30601
R:Goni, F.R.; Chen, P.P.; McGinnis, D.; Arjonilla, M.L.; Fernandez, J.; Carson, D.; Solc
J. Immunol. 142, 3158-3163, 1989
A:Title: Structural and idiotypic characterization of the L chains of human IgM autoantibodies
A:Reference number: A30601; MUID:89215279; PMID:2496160
A:Accession: H30601
A>Status: preliminary
A:Molecule type: protein
A:Residues: 1-109 <GON1>
A:Cross-references: UNIPARC:UPI000011B930
A:Accession: E30601
A>Status: preliminary
A:Molecule type: protein
A:Residues: 1-109 <GON2>
A:Cross-references: UNIPARC:UPI000011B930

C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;16-91/Domain: immunoglobulin homology <IMM>

Query Match 95.9%; Score 535; DB 2; Length 109;
Best Local Similarity 96.3%; Pred. No. 3.8e-38;
Matches 104; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKPGQAPRLLIYATSSRATGIP 60
Db 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKPGQAPRLLIYATSSRATGIP 60
Qy 61 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGGSPCFSGQGTKLEIK 108
Db 61 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGGSPYTFGQGTKLEIK 108

RESULT 3

F30601
Ig kappa chain V-III region (Nuc) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 29-Jun-1989 #sequence_revision 29-Jun-1989 #text_change 21-Jan-2000
C;Accession: F30601
J;Goni, F.R.; Chen, P.P.; McGinnis, D.; Arjonilla, M.L.; Fernandez, J.; Carson, D.; Soldo
J. Immunol. 142, 3158-3163, 1989
A;Title: Structural and idiotypic characterization of the L chains of human IgM autoanti
A;Reference number: A30601; MUID:89215279; PMID:2496160
A;Accession: F30601
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-109 <GON>
A;Cross-references: UNIPARC:UPI0000176AE8
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;16-91/Domain: immunoglobulin homology <IMM>

Query Match 95.7%; Score 534; DB 2; Length 109;
Best Local Similarity 93.5%; Pred. No. 4.6e-38;
Matches 101; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKPGQAPRLLIYATSSRATGIP 60
Db 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKPGQAPRLLIYATSSRATGIP 60
Qy 61 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGGSPCFSGQGTKLEIK 108
Db 61 DRFTGSGSGTDFTLVSRLEPEDFAVYCCQYGGSPCTFGQGTKLEIK 108

RESULT 4

F30601
Ig kappa chain V-III region (Glo) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 29-Jun-1989 #sequence_revision 29-Jun-1989 #text_change 09-Jul-2004
C;Accession: B30601
J;Goni, F.R.; Chen, P.P.; McGinnis, D.; Arjonilla, M.L.; Fernandez, J.; Carson, D.; Soldo
J. Immunol. 142, 3158-3163, 1989
A;Title: Structural and idiotypic characterization of the L chains of human IgM autoanti
A;Reference number: A30601; MUID:89215279; PMID:2496160
A;Accession: B30601
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-109 <GON>
A;Cross-references: UNIPARC:UPI0000176AE7
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;16-91/Domain: immunoglobulin homology <IMM>

Query Match 95.5%; Score 533; DB 2; Length 109;
Best Local Similarity 95.4%; Pred. No. 5.6e-38;
Matches 103; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKPGQAPRLLIYATSSRATGIP 60

Db 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKPGQAPRLLIYATSSRATGIP 60
Qy 61 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGGSPCFSGQGTKLEIK 108
Db 61 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGGSPPLTFGQGTKVEIK 108

RESULT 5

PH0963
Ig kappa chain V region (G6+ CLL-SMI) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 09-Jul-2004
C;Accession: PH0963
E;Martin, T.; Duffy, S.F.; Carson, D.A.; Kippes, T.J.
J. Exp. Med. 175, 983-991, 1992
A;Title: Evidence for somatic selection of natural autoantibodies.
A;Reference number: PH0952; MUID:92202880; PMID:1552291
A;Accession: PH0963
A;Status: nucleic acid sequence not shown
A;Molecule type: DNA
A;Residues: 1-109 <MAR>
A;Cross-references: UNIPROT:Q9UL78; UNIPARC:UPI0000176A29
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;1-23/Region: framework 1
F;16-91/Domain: immunoglobulin homology <IMM>
F;24-34/Region: complementarity-determining 1
F;35-50/Region: framework 2
F;51-56/Region: complementarity-determining 2
F;57-89/Region: framework 3
F;90-97/Region: complementarity-determining 3

Query Match 95.2%; Score 531; DB 2; Length 109;
Best Local Similarity 95.4%; Pred. No. 8.2e-38;
Matches 103; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKPGQAPRLLIYATSSRATGIP 60
Db 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKPGQAPRLLIYATSSRATGIP 60
Qy 61 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGGSPCFSGQGTKLEIK 108
Db 61 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGGSPPAFGQGTKVEIK 108

RESULT 6

D30601
Ig kappa chain V-III region (Cur) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 29-Jun-1989 #sequence_revision 29-Jun-1989 #text_change 09-Jul-2004
C;Accession: D30601
J;Goni, F.R.; Chen, P.P.; McGinnis, D.; Arjonilla, M.L.; Fernandez, J.; Carson, D.; Solo
J. Immunol. 142, 3158-3163, 1989
A;Title: Structural and idiotypic characterization of the L chains of human IgM autoanti
A;Reference number: A30601; MUID:89215279; PMID:2496160
A;Accession: D30601
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-109 <GON>
A;Cross-references: UNIPROT:Q9UL78; UNIPARC:UPI0000176AE9
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;16-91/Domain: immunoglobulin homology <IMM>

Query Match 95.2%; Score 531; DB 2; Length 109;
Best Local Similarity 95.4%; Pred. No. 8.2e-38;
Matches 103; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKPGQAPRLLIYATSSRATGIP 60
Db 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKPGQAPRLLIYATSSRATGIP 60


```
QY 61 DRFSGSGGTDFTLTISRLEPEDFAVYCCQYGGSPCSFGQGTKEIK 108
|||||
DB 61 DRFSGSGGTDFTLTISRLEPEDFAVYCCQYGGSPRTFGQGTKEIK 108
|||||

RESULT 7
C30601
Ig kappa chain V-III region (Pay) - human (fragment)
C:Species: Homo sapiens (man)
C>Date: 29-Jun-1989 #sequence_revision 29-Jun-1989 #text_change 09-Jul-2004
C:Accession: C30601
R:Goni, F.R.; Chen, P.P.; McGinnis, D.; Arjonilla, M.L.; Fernandez, J.; Carson, D.; Sold
J. Immunol. 142, 3158-3163, 1989
A>Title: Structural and idiotypic characterization of the L chains of human IgM autoanti
A:Reference number: A30601; MUID:89215279; PMID:2496160
A:Accession: C30601
A>Status: preliminary
A:Molecule type: protein
A:Residues: 1-109 <GON>
A:Cross-references: UNIPROT:Q9UL78; UNIPARC:UPI0000176ABE
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotetramer; immunoglobulin
P:16-91/Domain: immunoglobulin homology <IMM>

Query Match 95.0%; Score 530; DB 2; Length 109;
Best Local Similarity 94.4%; Pred. No. 9.9e-38;
Matches 102; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKQPGQAPRLIYATSSRATGIP 60
|||||
DB 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKQPGQAPRLIYATSSRATGIP 60
|||||

QY 61 DRFSGSGGTDFTLTISRLEPEDFAVYCCQYGGSPCSFGQGTKEIK 108
|||||
DB 61 DRFSGSGGTDFTLTISRLEPEDFAVYCCQYGGSPRTFGQGTKEIK 108
|||||

RESULT 8
S46369
IG light chain variable region (VJ) - human
C:Species: Homo sapiens (man)
C>Date: 07-May-1995 #sequence_revision 21-Jul-1995 #text_change 21-Jan-2000
C:Accession: S46369
R:Bensimon, C.; Chastagner, P.; Zouali, M.
EMBO J. 13, 2951-2962, 1994
A>Title: Human lupus anti-DNA autoantibodies undergo essentially primary V(chi) gene re
A:Reference number: S46369; MUID:94313975; PMID:8039491
A:Accession: S46369
A>Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-129 <BEN>
A:Cross-references: UNIPARC:UPI0000176CA5; EMBL:227170
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: immunoglobulin
P:36-111/Domain: immunoglobulin homology <IMM>

Query Match 95.0%; Score 530; DB 2; Length 129;
Best Local Similarity 95.4%; Pred. No. 1.2e-37;
Matches 103; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKQPGQAPRLIYATSSRATGIP 60
|||||
DB 21 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKQPGQAPRLIYATSSRATGIP 80
|||||

QY 61 DRFSGSGGTDFTLTISRLEPEDFAVYCCQYGGSPCSFGQGTKEIK 108
|||||
DB 81 DRFSGSGGTDFTLTISRLEPEDFAVYCCQYGGSPRTFGQGTKEIK 128
|||||

RESULT 9
S38643
Ig kappa chain V region - human (fragment)
C:Species: Homo sapiens (man)
```

```
C>Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 21-Jan-2000
C:Accession: S38643
R:Bensimon, C.; Chastagner, P.; Zouali, M.
submitted to the EMBL Data Library, November 1993
A>Description: Low rate of receptor-editing in human lupus anti-DNA autoantibodies.
A:Reference number: S38643
A:Accession: S38643
A>Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-134 <BEN>
A:Cross-references: UNIPARC:UPI00001165A2; EMBL:227170; NID:g415955; PIDN:CAA81694.1; PI
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotetramer; immunoglobulin
P:41-116/Domain: immunoglobulin homology <IMM>

Query Match 95.0%; Score 530; DB 2; Length 134;
Best Local Similarity 95.4%; Pred. No. 1.2e-37;
Matches 103; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKQPGQAPRLIYATSSRATGIP 60
|||||
DB 26 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKQPGQAPRLIYATSSRATGIP 85
|||||

QY 61 DRFSGSGGTDFTLTISRLEPEDFAVYCCQYGGSPCSFGQGTKEIK 108
|||||
DB 86 DRFSGSGGTDFTLTISRLEPEDFAVYCCQYGGSPRTFGQGTKEIK 133
|||||

RESULT 10
G30601
Ig kappa chain V-III region (Got) - human (fragment)
C:Species: Homo sapiens (man)
C>Date: 29-Jun-1989 #sequence_revision 29-Jun-1989 #text_change 09-Jul-2004
C:Accession: G30601
R:Goni, F.R.; Chen, P.P.; McGinnis, D.; Arjonilla, M.L.; Fernandez, J.; Carson, D.; Sold
J. Immunol. 142, 3158-3163, 1989
A>Title: Structural and idiotypic characterization of the L chains of human IgM autoant
A:Reference number: A30601; MUID:89215279; PMID:2496160
A:Accession: G30601
A>Status: preliminary
A:Molecule type: protein
A:Residues: 1-109 <GON>
A:Cross-references: UNIPROT:Q9UL78; UNIPARC:UPI0000176ABE
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotetramer; immunoglobulin
P:16-91/Domain: immunoglobulin homology <IMM>

Query Match 94.8%; Score 529; DB 2; Length 109;
Best Local Similarity 95.4%; Pred. No. 1.2e-37;
Matches 103; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKQPGQAPRLIYATSSRATGIP 60
|||||
DB 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAAYQKQPGQAPRLIYATSSRATGIP 60
|||||

QY 61 DRFSGSGGTDFTLTISRLEPEDFAVYCCQYGGSPCSFGQGTKEIK 108
|||||
DB 61 DRFSGSGGTDFTLTISRLEPEDFAVYCCQYGGSPRTFGQGTKEIK 108
|||||

RESULT 11
S49532
anti-Sm antibody VL chain (V kappa 3/J kappa 2) - human
C:Species: Homo sapiens (man)
C>Date: 01-Feb-1995 #sequence_revision 12-May-1995 #text_change 21-Jan-2000
C:Accession: S49532
R:Mahmoudi, M.; Edwards, J.; Cairns, E.; Bell, D.
submitted to the EMBL Data Library, October 1994
A>Description: Molecular characterization of natural human anti-Sm autoantibodies.
A:Reference number: S48797
A:Accession: S49532
A>Status: preliminary
A:Molecule type: mRNA
```

A;Residues: 1-129 <MAH>
A;Cross-references: UNIPARC:UPI00001166FC; EMBL:Z46345; NID:G560843; PIDN:CAA86464.1; PI
C;Superfamily: immunoglobulin V region; immunoglobulin homology
F;36-111/Domain: immunoglobulin homology <IMM>

Query Match 94.8%; Score 529; DB 2; Length 129;
Best Local Similarity 95.4%; Pred. No. 1.4e-37;
Matches 103; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYATSSRATGIP 60
Db 21 EIVLTQSPGTLSPGERATLSCRASQSFSSSYLAWYQKPGQAPRLLIYGASSRATGIP 80

Qy 61 DRFSGSGGTDFTLTISRLEPEDFAVYYCOQYSSPCSFQGTKEIK 108
Db 81 DRFSGSGGTDFTLTISRLEPEDFAVYYCOQYSSPQTFFGGQTKVEIK 128

RESULT 12
K3HUHA
Ig kappa chain precursor V-III region (Hah) - human
C;Species: Homo sapiens (man)
C;Date: 30-Jun-1990 #sequence_revision 30-Jun-1990 #text_change 09-Jul-2004
C;Accession: PL0022
R;Kipps, T.J.; Tomhave, E.; Chen, P.P.; Carson, D.A.
J. Exp. Med. 167, 840-852, 1988
A;Title: Autoantibody-associated kappa light chain variable region gene expressed in chr
A;Reference number: PL0021; MUID:88171307; PMID:3127527
A;Accession: PL0022
A;Molecule type: mRNA
A;Residues: 1-129 <KIP>
A;Cross-references: UNIPROT:P18135; UNIPARC:UPI000012E163
C;Comment: The protein is one of the surface immunoglobulin M autoantibodies expressed i
C;Genetics:
A;Gene: GDB:IGKV3
A;Cross-references: GDB:I36266
A;Map position: 2p12-2p11
C;Complex: An immunoglobulin heterotetramer subunit consists of two identical light (kap
hain disulfide bonds. In some cases, such as IgA and IgM, the subunits associate into la
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: autoantibody; chronic lymphocytic leukemia; heterotetramer; immunoglobulin
F;1-20/Domain: signal sequence #status predicted <SIG>
F;21-129/Product: Ig kappa chain V-III region (Hah) #status predicted <MAT>
F;21-117/Region: V segment
F;36-111/Domain: immunoglobulin homology <IMM>
F;44-55/Region: complementarity-determining 1
F;71-77/Region: complementarity-determining 2
F;110-117/Region: complementarity-determining 3
F;118-129/Region: J segment (JK1)
F;43-109/Disulfide bonds: #status predicted

Query Match 94.6%; Score 528; DB 1; Length 129;
Best Local Similarity 94.4%; Pred. No. 1.7e-37;
Matches 102; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYATSSRATGIP 60
Db 21 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYGASSRATGIP 80

Qy 61 DRFSGSGGTDFTLTISRLEPEDFAVYYCOQYSSPCSFQGTKEIK 108
Db 81 DRFSGSGGTDFTLTISRLEPEDFAVYYCOQYGTSPRTFFGGQTKVEIK 128

RESULT 13
S20636
Ig kappa chain V region - human
C;Species: Homo sapiens (man)
C;Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 21-Jan-2000
C;Accession: S20636
R;Lee, S.K.; Bridges, L.S.; Koopman, W.J.; Schroeder, H.W.
submitted to the EMBL Data Library, April 1992
A;Reference number: S20631

A;Accession: S20636
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-128 <LEE>
A;Cross-references: UNIPARC:UPI00001163DC; EMBL:Z11894; NID:G33200; PIDN:CAA77948.1; PID
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;36-111/Domain: immunoglobulin homology <IMM>

Query Match 94.4%; Score 527; DB 2; Length 128;
Best Local Similarity 94.4%; Pred. No. 2.1e-37;
Matches 102; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYATSSRATGIP 60
Db 21 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYAASSRATGIP 80

Qy 61 DRFSGSGGTDFTLTISRLEPEDFAVYYCOQYSSPCSFQGTKEIK 108
Db 81 DRFSGSGGTDFTLTISRLEPEDFAVYYCOQYGDSPRTFFGGQTKVEIK 128

RESULT 14
K3HUHI
Ig kappa chain precursor V-III region (Hic) - human
C;Species: Homo sapiens (man)
C;Date: 30-Jun-1990 #sequence_revision 30-Jun-1990 #text_change 09-Jul-2004
C;Accession: PL0021
R;Kipps, T.J.; Tomhave, E.; Chen, P.P.; Carson, D.A.
J. Exp. Med. 167, 840-852, 1988
A;Title: Autoantibody-associated kappa light chain variable region gene expressed in chr
A;Reference number: PL0021; MUID:88171307; PMID:3127527
A;Accession: PL0021
A;Molecule type: mRNA
A;Residues: 1-129 <KIP>
A;Cross-references: UNIPROT:P18136; UNIPARC:UPI000012E164
C;Comment: The protein is one of the surface immunoglobulin M autoantibodies expressed i
C;Genetics:
A;Gene: GDB:IGKV3
A;Cross-references: GDB:I36266
A;Map position: 2p12-2p11
C;Complex: An immunoglobulin heterotetramer subunit consists of two identical light (kap
hain disulfide bonds. In some cases, such as IgA and IgM, the subunits associate into la
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: autoantibody; chronic lymphocytic leukemia; heterotetramer; immunoglobulin
F;1-20/Domain: signal sequence #status predicted <SIG>
F;21-129/Product: Ig kappa chain V-III region (Hic) #status predicted <MAT>
F;21-117/Region: V segment
F;36-111/Domain: immunoglobulin homology <IMM>
F;44-55/Region: complementarity-determining 1
F;71-77/Region: complementarity-determining 2
F;110-117/Region: complementarity-determining 3
F;118-129/Region: J segment (JK1)
F;43-109/Disulfide bonds: #status predicted

Query Match 94.3%; Score 526; DB 1; Length 129;
Best Local Similarity 94.4%; Pred. No. 2.5e-37;
Matches 102; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYATSSRATGIP 60
Db 21 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYGASSRATGIP 80

Qy 61 DRFSGSGGTDFTLTISRLEPEDFAVYYCOQYSSPCSFQGTKEIK 108
Db 81 DRFSGSGGTDFTLTISRLEPEDFAVYYCOQYSSPWTFFGGQTKVEIK 128

RESULT 15
K3HUTI
Ig kappa chain V-III region (Ti) - human
C;Species: Homo sapiens (man)
C;Date: 24-Apr-1984 #sequence_revision 24-Apr-1984 #text_change 09-Jul-2004

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Query Match      93.9%; Score 524; DB 1; Length 109;
Best Local Similarity 92.6%; Pred. No. 3.2e-37;
Matches 100; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY      1 EIVLTQSPGTLSPGERATLSCRASQSVSSVSLAWYQQKPGAPRLIIYATSSRATGIP 60
      |||||
Db       1 EIVLTQSPGTLSPGERATLSCRASQSVNSFLAWYQQKPGAPRLIIYVASSRATGIP 60
      |||||

QY      61 DRPSGSGGTDFTLTISRLPEDFAVYYCQYGGSPCSFGGKLEIK 108
      |||||
Db       61 DRPSGSGGTDFTLTISRLPEDFAVYYCQYGGSPSTFGGKTVLEIK 108
      |||||

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Job time : 22.7854 secs

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GenCore version 5.1.1.8
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OM protein - protein search, using sw model

Run on: May 15, 2006, 16:54:27 ; Search time 138.592 Seconds
(without alignments)
549.793 Million cell updates/sec

Title: US-10-041-860-49
Perfect score: 558
Sequence: 1 EIVLTQSPGTLISLSPERAT.....COQYSSPCSFQGTGLEIK 108

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2166443 seqs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : UniProt 05.80.*

1: uniprot_sprot.*

2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	528	94.6	129	1 KV3L HUMAN	P18135 homo sapien
2	526	94.3	129	1 KV3M HUMAN	P18136 homo sapien
3	524	93.9	109	1 KV3D HUMAN	P01622 homo sapien
4	521	93.4	109	1 KV3B HUMAN	P01620 homo sapien
5	518	92.8	109	2 Q9UL78 HUMAN	Q9UL78 homo sapien
6	508	91.0	109	1 KV3E HUMAN	P01623 homo sapien
7	506.5	90.8	236	2 Q6PIL8 HUMAN	Q6PIL8 homo sapien
8	504	90.3	109	2 Q9UL86 HUMAN	Q9UL86 homo sapien
9	503	90.1	108	1 KV3A HUMAN	P01619 homo sapien
10	500	89.6	109	1 KV3G HUMAN	P04206 homo sapien
11	493	88.4	235	2 Q6PJF2 HUMAN	Q6PJF2 homo sapien
12	491	88.0	235	2 Q6GMV9 HUMAN	Q6GMV9 homo sapien
13	481.5	86.3	236	2 Q6P5S8 HUMAN	Q6P5S8 homo sapien
14	466	83.5	100	1 KV3C HUMAN	P01621 homo sapien
15	465.5	83.4	128	1 KV3K HUMAN	P06311 homo sapien
16	446	79.9	109	1 KV3F HUMAN	P01624 homo sapien
17	445.5	78.8	234	2 Q569I9 HUMAN	Q569I9 homo sapien
18	439	78.7	129	1 KV3H HUMAN	P04207 homo sapien
19	435.5	78.0	108	2 Q9UL83 HUMAN	Q9UL83 homo sapien
20	426	76.3	109	2 Q9UL85 HUMAN	Q9UL85 homo sapien
21	420.5	75.4	115	1 KV31 HUMAN	P04433 homo sapien
22	420	75.3	235	2 Q6GMW0 HUMAN	Q6GMW0 homo sapien
23	415.5	74.5	114	1 KV4A HUMAN	P01625 homo sapien
24	414	74.2	116	1 KV3J HUMAN	P04434 homo sapien
25	399.5	71.6	134	1 KV4C HUMAN	P06314 homo sapien
26	398.5	71.4	108	2 Q9UL79 HUMAN	Q9UL79 homo sapien
27	397.5	71.2	108	1 KV1H HUMAN	P01600 homo sapien
28	394.5	70.7	236	2 Q6PIH7 HUMAN	Q6PIH7 homo sapien
29	390.5	70.0	108	2 Q9UL77 HUMAN	Q9UL77 homo sapien
30	387	69.4	133	1 KV4B HUMAN	P06313 homo sapien
31	386.5	69.3	108	2 Q9UL70 HUMAN	Q9UL70 homo sapien

32	386.5	69.3	236	2 Q6GMX8 HUMAN	Q6GMX8 homo sapien
33	384	68.8	114	2 Q8K1F1 MOUSE	Q8K1F1 mus musculus
34	383.5	68.7	131	2 Q811C3 MOUSE	Q811C3 mus musculus
35	382.5	68.5	108	1 KV1M HUMAN	P01605 homo sapien
36	382.5	68.5	236	2 Q723Y4 HUMAN	Q723Y4 homo sapien
37	382.5	68.5	236	2 Q6GMX3 HUMAN	Q6GMX3 homo sapien
38	381.5	68.4	244	2 Q85ZC8 HUMAN	Q85ZC8 homo sapien
39	381	68.3	107	2 Q96SA9 HUMAN	Q96SA9 homo sapien
40	380.5	68.2	108	1 KV1F HUMAN	P01598 homo sapien
41	379.5	68.0	108	1 KV1K HUMAN	P01603 homo sapien
42	378.5	67.8	234	2 Q72473 HUMAN	Q72473 homo sapien
43	377.5	67.7	236	2 Q8PITS HUMAN	Q8PITS homo sapien
44	377.5	67.7	240	2 Q85ZC9 HUMAN	Q85ZC9 homo sapien
45	376.5	67.5	255	2 Q6KB05 MOUSE	Q6KB05 mus musculus

ALIGNMENTS

RESULT 1

ID	KV3L HUMAN	STANDARD;	PRT;	129 AA.
AC	P18135;			
DT	01-NOV-1990 (Rel. 16, Created)			
DT	01-NOV-1990 (Rel. 16, Last sequence update)			
DE	10-MAY-2005 (Rel. 47, Last annotation update)			
DE	Ig kappa chain V-III region HAH precursor.			
OS	Homo sapiens (Human).			
OC	Eukaryota; Metazoa;			
OC	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;			
OC	Homo.			
OX	NCBI_TaxID=9606;			
RN	[1]			
RP	NUCLEOTIDE SEQUENCE.			
EX	MEDLINE=89171307; PubMed=3127527; DOI=10.1084/jem.167.3.840;			
RA	Kipps T.J., Romhove E., Chen P.P., Carson D.A.;			
RT	"Autoantibody-associated kappa light chain variable region gene expressed in chronic lymphocytic leukemia with little or no somatic mutation. Implications for etiology and immunotherapy.";			
RT	J. Exp. Med. 167:840-852 (1988).			
CC	- - DISEASE: The protein is one of the surface immunoglobulin M autoantibodies expressed in patients with chronic lymphocytic leukemia.			
CC	This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not removed.			
CC	PIR; P18135; K3HUHA.			
DR	HSSP; P01625; 1BBQ.			
DR	SMR; P18135; 21-129.			
DR	Ensembl; ENSG00000169769; Homo sapiens.			
DR	GO; GO:0005576; C:extracellular region; NAS.			
DR	GO; GO:0003823; P:antigen binding; NAS.			
DR	GO; GO:0006955; P:immune response; NAS.			
DR	InterPro; IPR007110; Ig-like.			
DR	InterPro; IPR003596; Ig_V.			
DR	SMART; SM00406; IGV; 1.			
DR	PROSITE; PS50835; IG_LIKE; 1.			
KW	Immunoglobulin domain; Immunoglobulin V region; Signal.			
FT	SIGNAL 1 20			
FT	CHAIN 21 129			
FT	REGION 21 43			
FT	REGION 44 55			
FT	Complementarity-determining-1.			
FT	Framework-2.			
FT	REGION 56 70			
FT	REGION 71 77			
FT	Complementarity-determining-2.			
FT	Framework-3.			
FT	REGION 78 109			
FT	REGION 110 118			
FT	REGION 119 129			
FT	Complementarity-determining-3.			
FT	DISULFID 43 109			
FT	By similarity.			
FT	NON_TER 129 129			

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SQ SEQUENCE 129 AA; 14073 MW; D3C52927272774D0 CRC64;
Query Match 94.6%; Score 528; DB 1; Length 129;
Best Local Similarity 94.4%; Pred. No. 6.8e-47;
Matches 102; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYATSSRATGIP 60
Db 21 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYATSSRATGIP 80

Qy 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYATSSRATGIP 60
Db 21 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYATSSRATGIP 80

Qy 61 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGGSPSCSFQGGTKLEIK 108
Db 81 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGGSPSPRTFGGQTKVEIK 128

Qy 61 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGGSPSCSFQGGTKLEIK 108
Db 81 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGGSPSPRTFGGQTKVEIK 128

RESULT 2
KV3M HUMAN
ID KV3M HUMAN STANDARD; PRT; 129 AA.
AC P18136;
DT 01-NOV-1990 (Rel. 16, Created)
DT 01-NOV-1990 (Rel. 16, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Ig kappa chain V-III region HIC precursor.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=88171307; PubMed=3127527; DOI=10.1084/jem.167.3.840;
RA Kipps T.J., Tomhave E., Chen P.P., Carson D.A.;
RT "Autoantibody-associated kappa light chain variable region gene
RT expressed in chronic lymphocytic leukemia with little or no somatic
RT mutation. Implications for etiology and immunotherapy.";
RL J. Exp. Med. 167:840-852 (1988).
CC -!- DIGEASE: The protein is one of the surface immunoglobulin M
CC autoantibodies expressed in patients with chronic lymphocytic
CC leukemia.
CC
CC This Swiss-Prot entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC
CC PIR; P18021; K3HUH1.
CC HSSP; P01625; 1EQ.
CC SMR; P18136; 21-129.
CC
CC Ensembl; ENSG00000169769; Homo sapiens.
CC GO; GO:0005576; C:extracellular region; NAS.
CC GO; GO:0003823; F:antigen binding; NAS.
CC GO; GO:0006955; P:immune response; NAS.
CC InterPro; IPR007110; IG-like.
CC InterPro; IPR003596; IG_v.
CC SMART; SM00406; IGV; 1.
CC PROSITE; PS0835; IG LIKE; 1.
CC Immunoglobulin domain; Immunoglobulin V region; Signal.
FT SIGNAL 1 20
FT CHAIN 21 129 Ig kappa chain V-III region HIC.
FT REGION 21 43 Framework-1.
FT REGION 44 55 Complementarity-determining-1.
FT REGION 56 70 Framework-2.
FT REGION 71 77 Complementarity-determining-2.
FT REGION 78 109 Framework-3.
FT REGION 110 118 Complementarity-determining-3.
FT REGION 119 129 JKL segment.
FT DISULFID 43 109 By similarity.
FT NON TER 129 129
SQ SEQUENCE 129 AA; 14071 MW; 7395528EA2BB74D6 CRC64;
Query Match 94.3%; Score 526; DB 1; Length 129;
Best Local Similarity 94.4%; Pred. No. 1.1e-46;
Matches 102; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
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Matches 102; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYATSSRATGIP 60
Db 21 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYATSSRATGIP 80

Qy 61 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGGSPSCSFQGGTKLEIK 108
Db 81 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGGSPSPRTFGGQTKVEIK 128

RESULT 3
KV3D HUMAN
ID KV3D HUMAN STANDARD; PRT; 109 AA.
AC P01622;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DB Ig kappa chain V-III region TI.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP PROTEIN SEQUENCE.
RX MEDLINE=72188439; PubMed=5027703;
RA Suter L., Barnikol H.U., Watanabe S., Hilschmann N.;
RT "Rule of antibody structure. The primary structure of a monoclonal
RT immunoglobulin L-chain of kappa-type, subgroup 3 (Bence-Jones protein
RT Ti). IV. The complete amino acid sequence and its significance for the
RT mechanism of antibody production.";
RL Hoppe-Seyler's Z. Physiol. Chem. 353:189-208 (1972).
CC -!- MISCELLANEOUS: The C region of this chain has the INV (3) marker.
CC -!- MISCELLANEOUS: This is a Bence-Jones protein.
CC
CC This Swiss-Prot entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC
CC PIR; A01895; K3HUT1.
CC HSSP; P01625; 1LVE.
CC SMR; P01622; 1-109.
CC
CC GO; GO:0005576; C:extracellular region; NAS.
CC GO; GO:0003823; F:antigen binding; NAS.
CC GO; GO:0006955; P:immune response; NAS.
CC InterPro; IPR007110; IG-like.
CC InterPro; IPR003596; IG_v.
CC SMART; SM00406; IGV; 1.
CC PROSITE; PS0835; IG LIKE; 1.
CC Bence-Jones protein; Direct protein sequencing; Immunoglobulin domain;
KW Immunoglobulin V region.
FT DISULFID 23 89 By similarity.
FT NON TER 109 109
SQ SEQUENCE 109 AA; 11788 MW; 8C35058CDC7749BC CRC64;
Query Match 93.9%; Score 524; DB 1; Length 109;
Best Local Similarity 92.6%; Pred. No. 1.5e-46;
Matches 100; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYATSSRATGIP 60
Db 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQKPGQAPRLLIYATSSRATGIP 60

Qy 61 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGGSPSCSFQGGTKLEIK 108
Db 61 DRFGSGSGTDFTLTISRLEPEDFAVYCCQYGGSPSPRTFGGQTKVEIK 108

RESULT 4
KV3B_HUMAN
```

ID KV3B HUMAN STANDARD; PRT; 109 AA.
AC P01620;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Ig kappa chain V-III region SIE.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP PROTEIN SEQUENCE.
RX MEDLINE=82046598; PubMed=6794615;
RA Andrews D.W., Capra J.D.;
RT "Amino acid sequence of the variable regions of light chains from two
RT idiotypically cross-reactive human Igm anti-gamma-globulins of the Wa
RT group.";
RL Biochemistry 20:5816-5822(1981).
CC -!- MISCELLANEOUS: This chain was isolated from an Igm with anti-gamma
CC globulin activity.
CC -----
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CC use as long as its content is in no way modified and this statement is not
CC removed.
CC -----
CC PIR; A01892; K3HUSI.
DR HSP; P01625; LLVE.
DR SMR; P01620; 1-109.
DR GO; GO:0005576; C:extracellular region; NAS.
DR GO; GO:0003823; P:antigen binding; NAS.
DR GO; GO:0006955; P:immune response; NAS.
DR InterPro; IPR007110; IG-like.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS0835; IG LIKE; 1.
KW Direct protein sequencing; Immunoglobulin domain;
KW Immunoglobulin V region.
FT DISULFID 23 89 By similarity.
FT NON TER 109 109
SQ SEQUENCE 109 AA; 11775 MW; 76893EC6D646FFB4 CRC64;

Query Match 93.4%; Score 521; DB 1; Length 109;
Best Local Similarity 92.6%; Pred. No. 3e-46; Mismatches 5; Indels 0; Gaps 0;
Matches 100; Conservative 5;

QY 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWSYQKPKQAPRLLIYATSSRATGIP 60
Db 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWSYQKPKQAPRLLIYATSSRATGIP 60

QY 61 DRFGSGSGTDTFTLTISRLEPEDFAVYCCQYQSSPQTFGGQSKVEIK 108
Db 61 DRFGSGSGTDTFTLTISRLEPEDFAVYCCQYQSSPQTFGGQSKVEIK 108

RESULT 5
Q9UL78 HUMAN PRELIMINARY; PRT; 109 AA.
ID Q9UL78 HUMAN PRELIMINARY;
AC Q9UL78;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Myosin-reactive immunoglobulin light chain variable region
DE (Fragment).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.

RX MEDLINE=98277139; PubMed=9614934; DOI=10.1006/clin.1998.4531;
RA Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,
RA Young D.C.;
RT "Myosin-reactive autoantibodies in rheumatic carditis and normal
RT fetus.";
RL Clin. Immunol. Immunopathol. 87:184-192(1998).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RX PubMed=1373487;
RA Zebedee S.L., Barbas C.P. 3rd, Hom Y.L., Caochien R.H., Graff R.,
RA DeGraw J., Pyati J., LaPolla R., Burton D.R., Lerner R.A.;
RT "Human combinatorial antibody libraries to hepatitis B surface
RT antigen.";
RL Proc. Natl. Acad. Sci. U.S.A. 89:3175-3179(1992).
RN [3]
RP NUCLEOTIDE SEQUENCE.
RX PubMed=8436174;
RA Wagner S.D., Luzzatto L.;
RT "v kappa gene segments rearranged in chronic lymphocytic leukemia are
RT distributed over a large portion of the v kappa locus and do not show
RT somatic mutation.";
RL Eur. J. Immunol. 23:391-397(1993).
RN [4]
RP NUCLEOTIDE SEQUENCE.
RX PubMed=1552291;
RA Martin T., Duffy S.F., Carson D.A., Kipps T.J.;
RT "Evidence for somatic selection of natural autoantibodies.";
RL J. Exp. Med. 175:983-991(1992).
DR EMBL; AF035036; AAD56272.1; -, mRNA.
DR PIR; A30601; A30601.
DR PIR; A30608; A30608.
DR PIR; B30601; B30601.
DR PIR; B30607; B30607.
DR PIR; C30601; C30601.
DR PIR; C30607; C30607.
DR PIR; C30608; C30608.
DR PIR; D30601; D30601.
DR PIR; D30607; D30607.
DR PIR; D30608; D30608.
DR PIR; F30601; F30601.
DR PIR; F30607; F30607.
DR PIR; F30608; F30608.
DR PIR; G30601; G30601.
DR PIR; G30607; G30607.
DR PIR; H30601; H30601.
DR PIR; H30608; H30608.
DR PIR; H44151; H44151.
DR PIR; I30601; I30601.
DR PIR; PH0963; PH0963.
DR PIR; PH0964; PH0964.
DR PIR; PH0965; PH0965.
DR PIR; S33988; S33988.
DR PIR; S34096; S34096.
DR HSP; P01625; IEX3.
DR SMR; Q9UL78; 1-109.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003596; IG_v.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS0835; IG LIKE; 1.
FT NON TER 1 1
FT NON TER 109 109
SQ SEQUENCE 109 AA; 11646 MW; 5F675C52EC7EB197 CRC64;

Query Match 92.8%; Score 518; DB 2; Length 109;
Best Local Similarity 93.5%; Pred. No. 6.1e-46; Mismatches 2; Indels 0; Gaps 0;
Matches 101; Conservative 2;

QY 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWSYQKPKQAPRLLIYATSSRATGIP 60
Db 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWSYQKPKQAPRLLIYATSSRATGIP 60

QY 61 DRFGSGSGTDTFTLTISRLEPEDFAVYCCQYQSSPQTFGGQSKVEIK 108
Db 61 DRFGSGSGTDTFTLTISRLEPEDFAVYCCQYQSSPQTFGGQSKVEIK 108

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RESULT 6
KV3E_HUMAN
ID KV3E_HUMAN STANDARD; PRT; 109 AA.
AC P01623;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 05-MAY-2005 (Rel. 47, Last annotation update)
DE Ig kappa chain V-III region WOL.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP PROTEIN SEQUENCE.
RX MEDLINE=82046598; PubMed=6794615;
RA Andrews D.W., Capra J.D.;
RT "Amino acid sequence of the variable regions of light chains from two
RT idiotypically cross-reactive human IgM anti-gamma-globulins of the Wa
RT group.";
RL Biochemistry 20:5816-5822(1981).
CC -!- MISCELLANEOUS: This chain was isolated from an IgM with anti-gamma
CC globulin activity.
CC -----
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CC removed.
CC -----
DR PIR; A01896; K3HULW.
DR HSSP; P01625; ILVE.
DR SMR; P01623; 1-109.
DR GO; GO:0005576; C:extracellular region; NAS.
DR GO; GO:0003823; F:antigen binding; NAS.
DR GO; GO:0006955; P:immune response; NAS.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003596; Ig_v.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS00835; IG_LIKE; 1.
KW Direct protein sequencing; Immunoglobulin domain;
KW Immunoglobulin V region.
FT DISULFID 23 89 By similarity.
FT NON_TER 109 109
SQ SEQUENCE 109 AA; 11746 MW; 566C115B6B9CBEE CRC64;
Query Match 91.0%; Score 508; DB 1; Length 109;
Best Local Similarity 91.7%; Pred. No. 6.7e-45;
Matches 99; Conservative 2; Mismatches 7; Indels 0; Gaps 0;
QY 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQQKPKQAPRLIYATSSRATGIP 60
DB 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQQKPKQAPRLIYATSSRATGIP 60
QY 61 DRFGSGSGTDFTLTISRLEPEDFAVYVYCCQYVSSPCSGFGQTKLEIK 108
DB 61 DRFGSGSGTDFTLTISRLEPEDFAVYVYCCQYVSSPCSGFGQTKLEIK 108
RESULT 7
Q6PIL8_HUMAN
ID Q6PIL8_HUMAN PRELIMINARY; PRT; 236 AA.
AC Q6PIL8;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Hypothetical protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
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OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Udén T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butcherfield Y.S.N., Krzywinski M.I., Skalska U., Smallos D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RX TISSUE=Brain;
RA Strausberg R.;
RL Submitted (JUN-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC032451; AAH32451.1; -, mRNA.
DR HSSP; P01837; 1KCU.
DR SMR; Q6PIL8; 21-236.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003597; Ig_c1.
DR InterPro; IPR003006; Ig_MHC.
DR InterPro; IPR003596; Ig_v.
DR Pfam; PF07654; C1-set; 1.
DR SMART; SM00409; IG; 2.
DR SMART; SM00407; IGc1; 1.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS00835; IG_LIKE; 2.
DR PROSITE; PS00290; IG_MHC; UNKNOWN_1.
KW Hypothetical protein.
SQ SEQUENCE 236 AA; 25834 MW; 6647A9E77A3C0053 CRC64;
Query Match 90.8%; Score 506.5; DB 2; Length 236;
Best Local Similarity 90.8%; Pred. No. 2.4e-44;
Matches 99; Conservative 5; Mismatches 4; Indels 1; Gaps 1;
QY 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSSYLAWYQQKPKQAPRLIYATSSRATGIP 60
DB 21 ENVLTSQPGTSLSPGERATLSCRASQSVSSSYLAWYQQKPKQAPRLIYGVSSRATGIP 80
QY 61 DRFGSGSGTDFTLTISRLEPEDFAVYVYCCQYVSS-PCSPGQTKLEIK 108
DB 81 DRFGSGSGTDFTLTISRLEPEDFAVYVYCCQYVTSRPTIFGQTRLDIK 129
RESULT 8
Q9UL86_HUMAN
ID Q9UL86_HUMAN PRELIMINARY; PRT; 109 AA.
AC Q9UL86;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Myosin-reactive immunoglobulin kappa chain variable region
DE (Fragment).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
```



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OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=9827139; PubMed=9614934; DOI=10.1006/clin.1998.4531;
RA Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Bernay S.M.,
RT "Yosin-reactive autoantibodies in rheumatic carditis and normal
RT fetus.";
RL Clin. Immunol. Immunopathol. 87:184-192(1998).
DR EMBL; AF035028; AAD56264.1; -; mRNA.
DR PIR; B30607; B30607.
DR PIR; I30601; I30601.
DR HSP; P01625; ILEK3.
DR SMR; Q9UL86; 1-109.
DR Ensemble; ENSG00000169769; Homo sapiens.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003596; Ig_v.
DR SMART; SM00406; IGV; 1_v.
DR PROSITE; PS50835; IG_LIKE; 1.
FT NON_TER 1
FT NON_TER 109
SQ SEQUENCE 109 AA; 11928 MW; 243325F72C7DAC83 CRC64;

Query Match 90.3%; Score 504; DB 2; Length 109;
Best Local Similarity 91.7%; Pred. No. 1.8e-44;
Matches 99; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQQKPKGAPRLIYATSSRATGIP 60
DB 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQQKPKGAPRLIYATSSRATGIP 60

QY 61 DRFGSGSGTDTLTISRLEPEDFAVYCCQYGGSSPCSGFGQGTGLEIK 108
DB 61 DRFGSGSGTDTLTISRLEPEDFAVYCCQYGGSSIFTEGPKTKVDIK 108

RESULT 9
KV3A_HUMAN STANDARD; PRT; 108 AA.
AC P01619;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Ig kappa chain V-III region B6.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP PROTEIN SEQUENCE.
RX PubMed=11946339;
RA Milstein C.;
RT "The basic sequences of immunoglobulin kappa chains: sequence studies
RT of Bence Jones proteins Rad, F4 and B6.";
RL FEBS Lett. 2:301-304(1969).
CC -!- MISCELLANEOUS: This is a Bence-Jones protein.
CC
CC This Swiss-Prot entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC
CC PIR; A01891; K3HUB6.
DR HSP; P01625; ILEK3.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003596; Ig_v.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
DR Bence-Jones protein; Direct protein sequencing; Immunoglobulin domain;
KW Immunoglobulin V region.
FT DISULFID 23 89
FT NON_TER 109
SQ SEQUENCE 109 AA; 11930 MW; 9349A5BD93588B6 CRC64;

Query Match 89.6%; Score 500; DB 1; Length 109;
Best Local Similarity 89.8%; Pred. No. 4.6e-44;
Matches 97; Conservative 3; Mismatches 8; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQQKPKGAPRLIYATSSRATGIP 60
DB 1 EIVLTQSPGTLSPGERATLSCRAALISRGYLAWYQQKPKGAPRLIYATSSRATGIP 60

QY 61 DRFGSGSGTDTLTISRLEPEDFAVYCCQYGGSSPCSGFGQGTGLEIK 108
DB 61 DRFGSGSGTDTLTISRLEPEDFAVYCCQYGGSSPRSFQGTGRVEIK 108

DISULFID 23 89
By similarity.
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FT NON_TER 108
SQ SEQUENCE 108 AA; 11636 MW; 8BC14FF07A419E3D CRC64;

Query Match 90.1%; Score 503; DB 1; Length 108;
Best Local Similarity 86.1%; Pred. No. 2.2e-44;
Matches 93; Conservative 9; Mismatches 6; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQQKPKGAPRLIYATSSRATGIP 60
DB 1 ZIVLTZSPGTLSPGZRAALSCRAQSLSGNYLAWYQQKPKGAPRLIYATSSRATGIP 60

QY 61 DRFGSGSGTDTLTISRLEPEDFAVYCCQYGGSSPCSGFGQGTGLEIK 108
DB 61 DRFGSGSGADFTLTISRLEPEDFAVYCCQYGGSPFTFGQSGKLEIK 108

RESULT 10
KV3G_HUMAN STANDARD; PRT; 109 AA.
AC P04206;
DT 20-MAR-1987 (Rel. 04, Created)
DT 20-MAR-1987 (Rel. 04, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Ig kappa chain V-III region GOL (Rheumatoid factor).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP PROTEIN SEQUENCE.
RX MEDLINE=86230578; PubMed=3086710; DOI=10.1016/0161-5890(86)90049-0;
RA Newkirk M., Chen P.P., Carson D.A., Posnett D., Capra J.D.;
RT "Amino acid sequence of a light chain variable region of a human
RT rheumatoid factor of the Wa idiotype group, in part predicted by its
RT reactivity with anti-peptide antibodies.";
RL Mol. Immunol. 23:239-244(1986).
CC
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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC
CC PIR; A01893; K3HUGO.
DR HSP; P01625; ILEK3.
DR SMR; P04206; 1-109.
DR GO; GO:0005576; C:extracellular region; NAS.
DR GO; GO:0003823; F:antigen binding; NAS.
DR GO; GO:0006955; P:immune response; NAS.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003596; Ig_v.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
KW Direct protein sequencing; Immunoglobulin domain;
KW Immunoglobulin V region.
FT DISULFID 23 89
FT NON_TER 109
SQ SEQUENCE 109 AA; 11830 MW; 9349A5BD93588B6 CRC64;

Query Match 89.6%; Score 500; DB 1; Length 109;
Best Local Similarity 89.8%; Pred. No. 4.6e-44;
Matches 97; Conservative 3; Mismatches 8; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLSPGERATLSCRASQSVSSSYLAWYQQKPKGAPRLIYATSSRATGIP 60
DB 1 EIVLTQSPGTLSPGERATLSCRAALISRGYLAWYQQKPKGAPRLIYATSSRATGIP 60

QY 61 DRFGSGSGTDTLTISRLEPEDFAVYCCQYGGSSPCSGFGQGTGLEIK 108
DB 61 DRFGSGSGTDTLTISRLEPEDFAVYCCQYGGSSPRSFQGTGRVEIK 108

DISULFID 23 89
By similarity.
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RESULT 11
Q6PUF2_HUMAN
ID Q6PUF2_HUMAN PRELIMINARY; PRT; 235 AA.
AC Q6PUF2;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Hypothetical protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Lung;
RX MEDLINE=2238257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Raha S.S., Loquellano N.A., Peters G.J., Carninci P., Prange C.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Bobak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickinson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Buterfield Y.S.N., Krzywinski M.I., Skalska U., Smalhus D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.,
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Spleen;
RA Strausberg R.;
RL Submitted (JUN-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC073793; AAH73793.1; -; mRNA.
DR SMR; Q6GMV9; 21-235.
DR GO; GO:0016021; C: integral to membrane; IEA.
DR InterPro; IPR003599; IG.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003597; IG cl.
DR InterPro; IPR003006; IG_MHC.
DR InterPro; IPR003596; IG_v.
DR Pfam; PF07654; CI-set; 1.
DR SMART; SM00409; IG; 2.
DR SMART; SM00407; IGcl; 1.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS00835; IG LIKE; 2.
DR PROSITE; PS00290; IG_MHC; UNKNOWN_1.
KW Hypothetical protein.
SQ SEQUENCE 235 AA; 25520 MW; F33A145A396BA285 CRC64;

Query Match 88.4%; Score 493; DB 2; Length 235;
Best Local Similarity 88.0%; Pred. No. 6e-43;
Matches 95; Conservative 7; Mismatches 6; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSYLAWYQKPGQAPRLIYATSSRATGIP 60
DB 21 EIVLTQSPATLSLSPGERATLSCRAIQIVSSAYLAWYQKPGQAPRLIFGSSSRATGIP 80
QY 61 DRFGSGSGTDTFTLTISRLEPEDFAVYCCQYQSSPCSFQGTQKLEIK 108
DB 81 DRFGSGSGTDTFTLTISRLEPEDFAVYCCQYQSSGTFPGTGKVDIK 128

RESULT 12
Q6P5S8_HUMAN
ID Q6GMV9_HUMAN PRELIMINARY; PRT; 235 AA.
AC Q6GMV9;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Hypothetical protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Spleen;
RX MEDLINE=2238257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Raha S.S., Loquellano N.A., Peters G.J., Carninci P., Prange C.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Bobak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickinson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Buterfield Y.S.N., Krzywinski M.I., Skalska U., Smalhus D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.,
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Spleen;
RA Strausberg R.;
RL Submitted (JUN-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC073793; AAH73793.1; -; mRNA.
DR SMR; Q6GMV9; 21-235.
DR GO; GO:0016021; C: integral to membrane; IEA.
DR InterPro; IPR003599; IG.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003597; IG cl.
DR InterPro; IPR003006; IG_MHC.
DR InterPro; IPR003596; IG_v.
DR Pfam; PF07654; CI-set; 1.
DR SMART; SM00409; IG; 2.
DR SMART; SM00407; IGcl; 1.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS00835; IG LIKE; 2.
DR PROSITE; PS00290; IG_MHC; UNKNOWN_1.
KW Hypothetical protein.
SQ SEQUENCE 235 AA; 25520 MW; F33A145A396BA285 CRC64;

Query Match 88.4%; Score 493; DB 2; Length 235;
Best Local Similarity 88.0%; Pred. No. 6e-43;
Matches 95; Conservative 7; Mismatches 6; Indels 0; Gaps 0;

QY 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSYLAWYQKPGQAPRLIYATSSRATGIP 60
DB 21 EIVLTQSPATLSLSPGERATLSCRAIQIVSSAYLAWYQKPGQAPRLIFGSSSRATGIP 80
QY 61 DRFGSGSGTDTFTLTISRLEPEDFAVYCCQYQSSPCSFQGTQKLEIK 108
DB 81 DRFGSGSGTDTFTLTISRLEPEDFAVYCCQYQSSGTFPGTGKVDIK 128
```



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RA Klobeck H.G., Meindl A., Combriato G., Solomon A., Zachau H.G.;
RT "Human immunoglobulin kappa light chain genes of subgroups II and
RL III.";
RL Nucleic Acids Res. 13:6499-6513(1985).
CC -----
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CC -----
DR EMBL; Z00021; CAA77316.1; -; Genomic DNA.
DR PIR; A01899; K3HU41.
DR HSP; P01625; 1SEQ.
DR SMR; P06311; 21-128.
DR GO; GO:0005576; C:extracellular region; NAS.
DR GO; GO:0003823; F:antigen binding; NAS.
DR GO; GO:0006955; P:immune response; NAS.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003596; Ig_V.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
KW Immunoglobulin domain; Immunoglobulin V region; Signal.
FT SIGNAL 1 20
FT CHAIN 21 128 Ig kappa chain V-III region IARC/BL41.
FT REGION 21 43 Framework-1.
FT REGION 44 54 Complementarity-determining-1.
FT REGION 55 69 Framework-2.
FT REGION 70 76 Complementarity-determining-2.
FT REGION 77 108 Framework-3.
FT REGION 109 117 Complementarity-determining-3.
FT REGION 118 128 JkI segment.
FT DISULFID 43 108 By similarity.
FT NON_TER 128 128
SQ SEQUENCE 128 AA; 14070 MW; CC8957F0FE3B9012 CRC64;

Query Match 83.4%; Score 465.5; DB 1; Length 128;
Best Local Similarity 87.0%; Pred. No. 2.1e-40;
Matches 94; Conservative 4; Mismatches 9; Indels 1; Gaps 1;

QY 1 EIVLTQSPGTLISLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLLIYATSSRATGIP 60
Db 21 EIVLTQSPGTLISLSPGESATLSCRASQSVSSN-LAWYQQKRGSPRLLIIRDASSRANGIP 79

QY 61 DRFSGSGGTDFTLTIISRLPEDFAVYYCQQYSGSPCSFGQGTKLEIK 108
Db 80 DRFSGSGGTDFTLTIISRLPEDFAVYYCQQYSTSPYTFGQGTKLEIK 127

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Search completed: May 15, 2006, 17:03:56
Job time : 139.592 secs